Working Together Towards Sustainable Development

THE OECD EXPERIENCE





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Working Together Towards Sustainable Development

THE OECD EXPERIENCE

ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT

Pursuant to Article 1 of the Convention signed in Paris on 14th December 1960, and which came into force on 30th September 1961, the Organisation for Economic Co-operation and Development (OECD) shall promote policles designed:

- to achieve the highest sustainable economic growth and employment and a rising standard of living in Member countries, while maintaining financial stability, and thus to contribute to the development of the world economy;
- to contribute to sound economic expansion in Member as well as non-member countries in the process of economic development; and
- to contribute to the expansion of world trade on a multilateral, non-discriminatory basis in accordance with international obligations.

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PREFACE

In 1987 the World Commission on Sustainable Development stated that "our global future depends upon sustainable development. It depends upon our willingness and ability to dedicate our intelligence, ingenuity and adaptability – and our energy – to our common future. This is a choice we can make "

The OECD has both the willingness and ability to contribute to this endeavour. At the OECD Ministerial Council Meeting in May 2001, OECD Finance and Environment Ministeris undertook a commitment to shape globalisation for the benefit of all, to ensure that the poorest are not left behind, and to protect global environmental commons. They recognised that OECD countries bear a special responsibility, historically, and because of their weight in the global economy and environment, for leadership on sustainable development worldwide.

Commitments taken earlier this year at Doha and Monterrey for improving market access to, and increasing investments from, OECD countries represent important steps forward. But we should not take it for granted that this alone will suffice to alleviate poverty or strengthen the capacity of developing countries to cement sustainable development policies. The challenge is much broader, and as a truly multidisciplinary organisation, I believe that the OECD is particularly well positioned to help countries in the development of appropriate policies and tools to address the challenge of sustainable development.

This OECD Report demonstrates that since the Rio Conference a decade ago, DECD countries have been working towards sustainable development. They have made very promising progress in some areas. But while ideas and policy recommendations are abundant, implementation has clearly been lagging in many areas. It is only through closer partnerships between DECD and non-DECD countries that we will be able to get to the heart of the matter. This is the challenge for the World Summit on Sustainable Development in johannesburg.

The OECD remains fully committed to this objective, not only through monitoring and supporting its Member countries in the implementation of sustainable development policies, but also through contributing to new partnerships around the globe that offer the greatest promise for making sustainable development a reality for all.



Donald Johnston Secretary-General of the OECD

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EXECUTIVE SUMMARY

Sustainable development presents both challenges and opportunities

OECD countries have made progress towards sustainable development since the 1992 RO Earth Summit. Economic growth has been stable and social conditions have improved in most OECD countries, all while achieving reductions in a number of environmental pressures improving the balance between these three dimensions is the essence of sustainable development. OECD countries have also supported progress towards sustainable development beyond their borders, including through initiatives to tackle global environmental problems, as well as through reductions in barders to trade and investment flows. Since Rio, progress has been made...

Still, many pressing challenges remain. Strengthened action to address them is needed now, or they might become even more difficult to resolve. Within OECD countries, the challenges include establishing appropriate policies to combat the threat of dimate change, to better manage fisheries and water resources, and to provide greater protection of ecosystems and biodiversity. Such policies would result in a more marked decoupling of environmental pressures from economic growth by changing unsustainable consumption and production patterns. A better integration of the social, economic and and production patterns. A better integration of the social, economic and needed. The necessary policies have, for the most part, been identified, what is needed now is their implementation.

... but more

OECD countries recognise that they bear special responsibility for leadership in sustainable development because of their effect on the global economy and on the environment. But sustainable development demands co-operation and partnerships between OECD countries, transition economies, and developing countries. It requires enhanced blateral and multilateral effort.

OECD countries are committed to show leadership.

There will be no sustainable development without reducing poverty and disease. All tho five worlds population lives on less than USD I per day, and millions sulfer from chronic hunger. HIV/AIDS and other diseases are undermining in the very foundations of society in many countries. Meanwhile, Internations of society in many countries world and civil conflicts threaten the ability of people to rise out of poverty, setting up a particular by civil conflicts threaten the ability of people to rise out of poverty, setting up a particular by civil conflicts of the conflict and vice-versa. Clinical and vice-versa. Clinical and vice-versa. Clinical and vice-versa. Clinical and every mental or severities and agreements a conventions are vice-versation, water scarcity, and overfishing – all need immediate action. International environmental conventions are greenests have been set up to tackle many of these, but implementation difficulties about the contractions of the contractions

Poverty eradication remains an overarching challenge...

... and global environmental problems need action.

OECD countries are contributing to worldwide poverty eradication

Ambitious poverty reduction and sustainable development goals have been agreed. Most countries have agreed to a set of ambitious targets for poverty reduction and sustainable development through the development goals contained in the UN Millennium Development Declaration. Achieving the targets set for 2015 – including reducing extreme poverty by half all eliminating hunger—is a major halfenge for all countries. Most OECD countries have agreed to devote 0.7% of their gross national income (GNI) to development assistance. Although most fall well short of this target, there is new readliness, as evidenced at the UN Conference on Financing Development in Monterrey, to increase aid efforts.

Increased trade and investment liberalisation can contribute... Increasing trade and investment liberalisation is also vital, and has sustained economic growth in OECD countries as well as benefiting a number of non-OECD countries. Its importance for sustainable development cannot be underestimated, but needs to be accompanied by appropriate national policies to ensure social and environmental benefits as well as economic growth.

... particularly by expanding market access for those countries at the margins of globalisation Some of the poorest countries have been left behind however. Lack of capacity has to some extent prevented them from taking advantage of these capacity has to some extent prevented them from taking advantage of these capacity has to sevel point of the prevented them from the prevented them from the countries is also to be about the grain to developing countries from unrestricted access to DECD country markets for textiles and clothing, other manufactured goods, and agricultural products could total USD 43 billion per year. Gradually reducing agricultural products could total USD 43 billion per year. Gradually reducing lowering consumer prices, improving the allocation of resources and, in some cases, reducing pressures on the environment. Efforts to remove trade distortions are being strengthened through the Doha Development Agenda of the WTO. Other initiatives, specifically aimed to increase market access for products from the least developed countries, can complement this process.

Despite economic growth, pressing social and environmental problems persist in OECD countries

Economic growth has improved many social conditions, but disparities persist, Problems pesists within OECD countries as well, despite the sustained contonic growth experienced in the past decade. While this growth has led to improved quality of life for most OECD citizens, not all have benefited. Although education and social cohesion are find anomaton to sustainable development, unemployment, social cohesion, and access to education have worsened in a few OECD countries. Everywhere, rapidly ageing populations are putting pension schemes under pressure, with important implications for intersenerational equality.

... better implementation of policies to address environmental problems is needed. Economic activities in OECD countries continue to exert pressure on the environment. There has been some decoupling of environmental pressures from economic growth, including significant achievements in reducing emissions of certain air and water pollutants, especially from point sources, and in managing some renewable resources. Thus, OECD countries have virtually ellminated emissions of lead from petrol and of ozone depleting CFCs, and have increased forest area and volume

But more can be done. Globally, climate change and the sustainable management of natural resources remain the greatest challenges. Within OECD countries, urban air pollutants arising from energy and transport still exceed national health limits in some areas, while pollution from agriculture and other sources impairs water and soil quality. Persistent and toxic chemicals are more pervasive in the environment due to their increased use and tendency to accumulate. Even though more waste is being recycled, its volume confluency to increase.

Obstacles to policy reform can be overcome

While a number of cost effective policies or actions have been identified, obstacles to their successful implementation remain. Progress towards sustainable development requires:

- the reform of government decision-making processes to allow a more integrated approach to sustainable development, including better mechanisms for interacting with full society;
- greater use of market-based instruments, combined effectively with regulations, to encourage producers and consumers to take the full costs of environmental or social pressures into account:
- harnessing of science and technology to boost its contribution to sustainable development, including greater use of technology policies to help decouple environmental pressures from economic growth;
- ensuring that trade, investment, environmental and social policies are coherent and mutually supportive, and the opening of world markets to ensure that the benefits of globalisation and technological advance are widely shared; and
- introducing policy changes at a pace and in a manner that allows for adequate adaptation to any adverse social effects.

OECD countries are increasingly using market instruments to address environmental externalities, such as through greater use of environmental taxes and tradable permits. However, exemptions to environmental taxes and tradable permits. However, exemptions to environmental taxes and tradable permits. However, exemptions to environmental taxes and energy-intensive industries, reducing their effectiveness. Moreover, progress in tendring environmentally damaging subsidies has been slow, particularly in some sectors. There is resistance to reform because of learns of a loss of competitiveness for affected sectors, or that the costs will simply be too high in terms of employment or income effects. Lack of information on the full effects of support programmes and taxation policies further hampers reform. Policies are needed to address these concerns (such as retraining, lifetime deducation, or adjustment schemers) or by co-ordinating international action (such as on the use of energy taxes or removal of environmentally damaging subsidies).

Sedence and technology can make a substantial contribution to sustainable development, for example through the development for example through the development of alternatives to and more efficient use of fossil tuels affordable duags to combat common diseases, accessible water purification systems, and through better understanding of ecosystems. New technologies can contribute to more sustainable production and consumption patterns, enabling people to use resources and energy more efficiently, substitute benign for hazardous substances and processes, and manage waste more effectively. But greater efforts are needed to overcome the

Cost-effective solutions exist, but there are major obstacles to their use.

These barriers can be overcome through policies to address adverse social effects....

...co-ordinated

... the development and dissemination of appropriate science and technology,... information gaps and market barriers which limit the development and nifosemination of such technologies ush technologies with technologies of proving the capacity of governments to facilitate and encourage a broad and well-informed debate on critical Issue, and to manage calentific knowledge with a longer term horzon. The application of new technologies and practices that can improve performance should be extended, which can be considered in the preformance should be extended, which are wetchnologies as a penetral variety of the control of the province of the control o

... and improved policy coherence for sustainable development. Because of the multi-dimensional nature of sustainable development. OECD countries recognise that they need to strengthen their decision making through increased integration of policies across sectors and ministries. Adequate investment is needed across the economic, social and environmental pillars of sustainable development in equipment and infrastructure, intellectual capital, human capital, and natural capital. Monitoring and reporting progress towards sustainable development, including through the use of indicators, is important for this process, as are increased transparency of policy decisions and participation by affected citizens, business and civil society. Most DECD countries are now developing more effective communication and consultation processes.

Global partnerships are essential

Increased partnerships between OECD and non-OECD countries are needed. The growing economic Importance of non-DECD countries has increased their role in ensuring the integrity of global economic environmental and social systems. The globalisation of both economic activity and environmental problems means that co-operation and partnerships have become essential for moving towards sustainable development at least-cost. This requires co-operation not only among governments, but also between governments and stakeholders.

OECD countries can support developing countries in their efforts... Each country bears primary responsibility for creating the conditions that generate sustainable growth while maintaining environmental and social quality within its borders. But OECD countries can do much to support developing countries in their efforts. Countries can work together to achieve common goals, ensure good legal frameworks, expand market access to goods and services of non-member countries, and to provide the right conditions to encourage foreign direct investment that supports sustainable development. Increasing the effectiveness of ODA and bringing it to the appropriate level can help non-OECD countries to develop the human capacities, institutions, and governance that will enable them to take advantage of the opportunities offered by globalisation

... including through providing the right frameworks for private financial flows, and increasing the effectiveness of ODA.

OECD countries can also support developing countries' efforts towards sustainable development by stimulating increased and better directed technology co-operation, know-how, and financial resources. OECD donor countries should encourage the integration of social and environmental concerns in national development strategies of developing countries.

The international framework to encourage other forms of financing – such as foreign direct investment (FDI), portfolio flows, and financial support from international financing institutions – is currently being established, as well as mechanisms to encourage environmentally and socially responsible investment. Developing adequate capacity and policy frameworks at the national level – including good governance, transparency, predictability, and creating appropriate environmental and social conditions – can also help to attract investment flows that support sustainable development.

The OECD supports countries in their progress towards sustainable development

The DECD brings together 30 countries sharing a commitment to democratic government and a market economy. The global reach of its activities is supported by active relationships with some 70 non-DCCD countries, non-governmental atorganisations and civil society. The Onn-DCCD countries, non-governmental forum in which to identify emerging issues and analyse, discuss and develop a rormage of public policies. Member countries compare experiences, seek analyse to common problems and work to improve domestic and international policy to common problems and work to improve domestic and international policy co-ordination. The work of the Organisation covers economic, coal-environmental and agricultural policies, as well as development cooperation, or trade, fiscal, public management, science, and other sectoral policy because of it's the interdisciplinary approach taken by the OECD in its Because of it's the interdisciplinary approach taken by the OECD in its efforts to increase policy coherence and integration in pursuit of sustainable development.

The OECD supports its members in their efforts towards sustainable development through a range of activities.

Accountability is a key pre-requisite for achieving sustainable development. Peer reviews of country performance help countries to monitor their progress towards national sustainable development in a consistent manner, and stimulates countries to challenge one another on the implementation of their profices. Regular reviews of performance and peer pressure help countries to monitor their progress in a consistent and comparable manner.

New work requested by OECD Ministers in May 2001 will support the turther advancement of sustainable development of bleetives. Agreed indicators that measure progress across all three dimensions of sustainable development will be developed with a view to incorporating these into OECD's peer review processes. Analysis will identify how obtacked so policy reforms—in particular to the better use of market-based instruments and the phasing-out of environmentally harmful subsidies – can be overcome. Way and the provided of the provided of the phasing out of environmental pharmful subsidies – can be covercome. Way and guidance for achieving improved economic, environmental and social policy continues of the provided of the provide

INTRODUCTION

Sustainable development remains a global challenge. Progress has been realised in the ten years since the 1992 Earth Summlt, but many challenges remain, DECO countries have enjoyed sustained economic growth in recent years, improved social conditions, and reductions in certain environmental pressures. Their actions have also supported moves towards sustainable development in non-DECD countries and globally, including removing some barriers to investment and trade, and working together to tackle some global environmental problems. However, many pressing issues remain. Tackling them will be more difficult in the future of action does not start now.

Within OECD countries priorities for action include improving access by all citizens to social services and opportunities, overcoming the gap in the implementation of environmental policies, achieving sustainable consumption and production patterns, and better integrating the three dimensions of sustainable development – economic, social, and environmental – Into policy-making, Outside the DECD region, the challenges are even more pressing. Many of these challenges are affected – sometimes positively, sometimes negatively – by OECD country policies. Access of goods produced by developing countries to OECD markets is still limited, restricting the possibilities for some developing countries to take advantage of trade opportunities; increasing trade and investment liberalisation could in the future benefit many developing countries and support their efforts to eradicate poverty. One in five people world-wide blodwershy loss, water scartly and pollution, and overchishing inequire urgent attention. Commitments ests to tackle these problems—for example through the Millennium Development Goals and various multilateral environmental asserments – but make mentand in linker.

When DECD Ministers of Finance and Environment first met together at the OECD in May 2001, they recognised sustainable development as an overarching goal of DECD governments and the Organisation. They emphasised that OECD countries bear a special responsibility for leadership on sustainable development worldwide, historically and because of the weight they continue to have in the global economy and environment. Endorsing the key policy recommendations from a three-year organisation-wide project on sustainable development, they recognised the difficulties inherent in implementing these policies, and the gaps in analytical and scientific understanding in the area of sustainable development. To help address these issues, they asked the OECD¹ to continue assisting them in formulating and implementing policies to achieve sustainable development, and in particular to

- develop agreed indicators that measure progress across all three dimensions of sustainable development, with a view to incorporating these into OECD's peer review processes;
- identify how obstacles to policy reforms in particular to the better use of market-based instruments, and to the reduction of environmentally harmful subsidies – can be overcome;
- analyse further the social aspects of sustainable development; and
- provide guidance for achieving improved economic, environmental and social policy coherence and integration.

Ministers asked the OECD to report to them on progress achieved on these Issues at their 2002. Ministerial Council Meeting, with a view to contributing to the forthcoming World Summit on Sustainable Development (WSSD) to be held in Johannesburg, South Africa, in August-September 2002. This report responds to that mandate.

The WSSD provides an opportunity for countries to assess progress towards sustainable development in the decade since the Earth Summit, and to discuss the path forward. This report provides a review of the contribution of the actions and policies of OECD countries both within their own borders and internationally, including how the 'impact on developing countries' progress towards sustainable development. It brings together the lessons learned through OECD country experience on the conditions needed to achieve sustainable development, indicates some of the barriers to their implementation, and identifies some of the options for overcoming these barriers, drawing on the past and onacing work of the Organisation.

This report provides a brief overview of the key messages emerging from a three-year horizontal work programme on sustainable development at the OECD that was completed in 2001, and the initial flindings of new work started in response to the request by Ministers at their May 2001 meeting, flindings of new work started in response to the request by Ministers at their May 2001 meeting, Chapter 2 of the report provides a brief review of the progress that OECD countries have made in contributing to sustainable developments, both within their own boundaries and globally. It provides a factual review of the effectiveness of current policies of OECD countries in the achievement of sustainable development and of already agreed commitments. Chapter 3 reviews progress in the development and implementation of policies to achieve more sustainable development. It also barriers. Chapter 4 outlines the barriers to policy reform, and some of the successful measures to overcome these sustainable development in non-OECD countries are taking that support on hidder more sustainable development in non-OECD countries are taking that support or hidder more operation between OECD and non-OECD countries will be needed to further progress.

2

OECD COUNTRIES AND SUSTAINABLE DEVELOPMENT: PROGRESS AND CHALLENGES

Sustainable development implies providing for the needs of the present generation without compromising the ability of future generations to meet their own needs. It involves making progress simultaneously along three dimensions – economic, social, and environmental – each of which is linked to the others. Economic growth in OECD countries over the past decade has led to improved quality of life for most citizens, who have enjoyed rising levels of life expectancy and educational attainment. However, not all have benefited from these gains while the number of people living in powerty has the continues of the progression decorpiling pollution and resource use from economic growth in OECD countries also continues to put pressure on the environment, despite some progress in decoupling pollution and resource use from economic growth.

Accumulation of various forms of capital has contributed to economic growth in OECD countries, but natural capital has declined

Maintaining or increasing the level of total capital – Including man-made, natural, human, and social capital – is essential or sustainable development. Investment in the different forms of capital affect economic growth and sustainable development, although in some cases this relation is only evident in the longer term. Thus, it is not susprising to find that (DP) growth in OEEO, countries during the 1980s and 1990s was accompanied by steady or increasing shares of CDP devoted to investment in plant, equipment and infrastructure (physical capital); education and health are thuman capital), and research and development (intellectual capital). While the share of CDP in OECO countries invested in physical capital fell in the first part of the decade. It recovered in the second, mainly due to significant spending on information technology. Over the same period, the share of CDP devoted to education and training remained stable at about 6%, while that development (RED) from both the public sector and industry remained steady at over 2% of CDP with that financed by industry singet rose about two-thirds of the total by the end of the decade.

Natural capital is critical for sustainable development, providing resource inputs to industry, assimilating wastes, and providing essential ecosystem services and amenities, OECD countries have made considerable efforts in recent years to reduce human pressures on natural capital, including reducing the release of many pollutants and ensuring adequate regeneration of some renewable natural resources (r.g. forest stocks). Expenditures on pollution abatement and control has been rising solwly in recent years, reaching amound 1-28 of GDP in most DECD countries (DECD 2018). Other areas of the natural resource base used by DECD countries continue to be overseed or are being degraded in quality, however, including world fish stocks, the global atmosphere, proundwater resources, and the capital have had immediate impacts on economic of social conditions, for example where overthising has led to the economic collapse of selected fisheries or where soil loss has reduced the visibility of

Box 2.1. Mexico's programme to define land rights

The Mexican constitution recognises three forms of land ownerships small private ownership with well-defined size limits, community land, and ejidos. Community land and ejidos are forms of collective land ownership that were promoted during several decades of land redistribution from 197 to 1992. Currently, they owner about 137 million hextens, about half the territory of thesco. The 1972 reform of currently, they owner about 137 million hextens, about half the territory of thesco. The 1972 reform of individual property rights on land held under the ejido or communal property system. Defining and effectively protecting these individual property rights involves a two-triber amount of majority approval in the ejido assembly drawing a map and measuring the size of the land and the limits of the ejido deciding the use of the land in each ejido. Including residential land, common land and plotes and registering the the size of the land of the common land of the land of th

In 1999, the Mexican government introduced a program to certify eighd rights and urban lot titles (Programa de Certificación do Derechos Ejidales y Tituación de Solares Urbanos or PROCEDE). Participation in this program is voluntary and free for beneficiaries. The National Agrarian Registry issues corrillactes of right over common-use lands to the members of the eighd or normunity, as decided by the program of the prog

The certification process is a significant step in defining land rights to community and ejido land Previously, entals of land were informal. Under the new system, many land entrals are likely to be formal, giving greater security to both landlords and tenants, and providing incentives for the owners to ensure their use of the land is sustainable over the longer-term.

Source: OECD (2001c).

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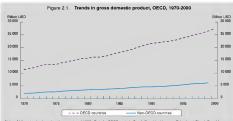
certain lands for agricultural production. In other cases, the impacts of a deterioration or depletion of natural capital on economic conditions are not yet visible, but may negatively impact on future generations, raising concerns regarding inter-generational equity.

Various policies influence the rate of accumulation of the different forms of capital that contribute to sustainable development. Thus, macroeconomic policies geared towards low inflation and sound to sustainable development. Thus, macroeconomic policies geared towards low inflation and sound investments in education and health have translated into higher education all that and an improved health status, and contributed to labour productivity, Investment in R6D has generated new technologies and led to more efficient use of existing resources. The clear definition and enforcement of property rights over natural resources has provided incentives for more sustainable use of these resources size Box 2.1), while investment in Infrastructure and technologies to limit pollution, in large part induced by policies that internalise the external social and environmental costs of economic activities, have reduced pressures on the natural resource base.

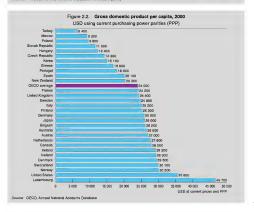
Higher material living standards in OECD countries rose during the 1990s, supported by increasing trade and investment liberalisation

Economic arowth has been sustained in OECD countries

OECD countries have enjoyed strong economic growth during the past thirty years (Figure 2.1), with per capita income nearly tripling for the 26 OECD countries for which data are available. While economic growth in OECD countries slowed from an average of 3% per year in the 1970s to about 2.4% in the 1980s, it picked up again during the 1990s to reach a decade-long average of 2.6% per year. The level and growth in gross domestic product (CDP) varied significantly from country to country (Figure 2.1).



Notes: At the price levels and exchange rates of 1995. Data for OECD exclude Czech Republic, Hungary, Poland and Slovak Republic Sources. OECD, National Accounts Database, World Bank (2000).



Source: OECD (2000b), UNCTAD (2000), World Bank (2000)

While OECD economies grew steadily during the ten years to 1999, non-DECD economies in aggregate grew slightly faster, at an average rate of about 3.3% per year (World Bank, 2000). However, more rapid population growth in most non-DECD countries, implied a larger gap in per capita GDP between OECD and non-DECD countries.

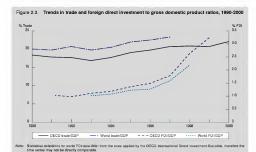
Trade and foreign direct investment have increased, but ODA has fallen

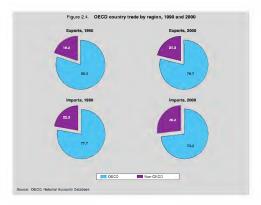
Among the most important factors sustaining economic growth in OECD countries is openness to trade and foreign direct investment (FDI). Trade and investment promote economic growth, employment, and development by improving resource allocation, exposing producers to competition, and diffusing technology and knowledge. During the past few decades, OECD countries have further reduced their tailfis and non-tailfi barriers to trade and investment, although to a varying extent across different sectors. This process was particularly promounced during the 1990s, when new regional trading arrangements were forged (especially in the Asia-Pacific, Europe, and North America), the World Trade Organisation (WTO) Agreements were concluded, and many countries unlaterally reduced their trade barriers.

As a result, OECD trade and FDI outflows in relation to GDP grew strongly during the past decade.

OECD trade (measured as the sum of imports and exports) in proportion to GDP grew from 18% of GDP
in 1990 to 27% in 2000. OECD FDI outflows grew from 1% of GDP in 1991 to 3.3% of GDP in 1999. Growth
in OECD trade and FDI mirrors that in the world as a whole (Figure 2.3).

OECD countries continue to trade and Invest primarily among one another. In 2000, about 79% of OECD country exports went to other OECD countries and 73% of imports came from other OECD countries (Figure 2.4). But both shares are lower than they were in 1990, when Intra-OECD country trade accounted for 80% of exports and 75% of imports. In 1999, about 85% of FDI originating in OECD countries went to other OECD countries. This share has not declined in recent years, although the total amount of OECD FDI going to non-OECD countries has grown. From USD 19 billion in 1995 to USD 125 billion in 1999 (OECD.)

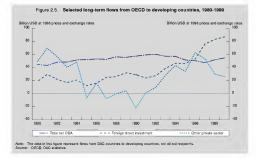




2000b). Over 70% of these flows to non-OECD countries went to developing countries (see Figure 2.5). Trade between non-OECD countries has also been increasing significantly.

Only a few developing countries have accounted for most of the Increased trade and Investment between OECD and non-DCEC Dountries in 2009, 38% of OECD exports to non-DCEC Ountries went to just five countries, and 4% of imports from non-DCED to DCED countries came from five countries in 2019, 38% of DCED PSD different on 2019 of DCECD countries, and 4% of this was invested in just four countries in 1999. Argentina, Brazil, Hong Kong, and Chille (DCECD, 20009), FDI flows from DCED countries to non-DCECD countries have become increasingly concentrated in just a few countries, with flows to the top ten non-DCED countries increasing from 19% in 1985 to 53% in 1999 of total OECD flows to non-DCED countries.

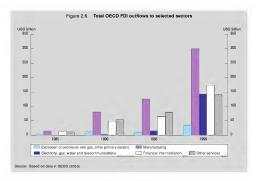
While OECD FDI to developing and transition countries are still a relatively small proportion of their total capital outflows, they are increasingly important for the recipients. This is because, as outward FDI has been rising, official development assistance (DDA) has declined. Since 1995, the value of FDI to non-DECD countries has exceeded the value of DDA. In 1999, FDI exceeded USD8 8billion, and accounted for 57% of the total capital inflows of developing and transition countries (excluding bank leading, bonds, and equities) (Figure 25, However, there was an important inflication of a reversal in this declining trend in the statements made by major DECD donors at the UN Financing for Development Conference in Montrery, Mexico, in March 2002.



Although the majority of OECD countries have agreed to devote 0.% of their gross national income (GNI) to devolopment assistance, only five achieved this target in 2001, While OECD countries are increasingly recognising the importance of investing in basic services that directly contribute to sustainable development – such as health services, education, and environmental protection – these priorities are not yet translating into higher amounts of ODA targeted to these areas. Thus, for example, health and education currently account for just over 13% of total ODA. Despite these trends, ODA continues to provide an important share of total resources available for social and environmental improvements in recipient countries and is likely to remain so in the future. The increase in FDI flows will not change this situation, as most FDI are targeted to productive activities, such as extraction of oil and gas, manufacturing, and financial services, while very little FDI goes to provide basic social or environmental services (Figure 2.6).

Table 2 I. OECD trade by partner country, 2000

Imports			Exports		
	Million USD	% from non-OECD		Million USD	to non-OECI
OECD from OECD	3 469 379		OECD to OECD	3 491 785	
Non-OECD to OECD of which from	1 280 664	41.8	OECD to non-OECD of which to:	944 000	38.3
China	249 922	19.5	China	95 785	10.1
Chinese Tapei	98 274	7.7	Chinese Taipei	87 103	9.2
Russia	66 726	5.2	Hong Kong	77 089	8.2
Malaysia	65 403	5.1	Singapore	63 359	6.7
Saudi-Arabia	54 873	4.3	Malaysia	38 312	4.1



Economic growth has improved the quality of life for most citizens of OECD countries, but not for all

Over the past fifty years, with rising living standards, OECD countries have undergone significant demographic and social changes, Note have undergone a demographic transition that many developing countries still face. Moreover, most have successfully addressed some of the pressing social and human development issues that developing countries are still dealing with, such as reducing high rates of communicable diseases, ensuring an adequate food supply, providing clean water and sanitation, and achieving universal primary education. The challenges now facing most DECD countries relate to diseases of old age (e.g. cancer, heart diseases, and degenerative brain diseases), finding approaches to education that allow people to learn new skills and perform new jobs throughout their lifetime; integrating the most disadvantaged welfare recipients into employment; and adapting social safety nets to population ageing and shifts in family composition. Fighting unemployment remains an essential element of the social dimension of sustainable development in OECD countries, as work is an important factor for people's self-realisation and for their ability to share in the prosperity of socials.

Population is growing slowly and is gradually ageing

In most OECD countries, population growth has slowed dramatically during the past few decades. In 1999, the population growth rate stood at 0.6%, compared with 0.8% in 1990 (Figure 2.7), in non-DECD countries, world population levels are continuing to grow at a faster pace than in DECD countries though at a slower rate than in the past (Figure 2.8). As a result, the share of DECD countries in world population is projected to shrink from about 18% today to 15% in 2020. Total world population is expected to stabilist by mid-century.

Lower population growth rates in OECD countries has reflected a decline in desired family size, linked, among other factors, to rising opportunities for women to obtain education and participate in

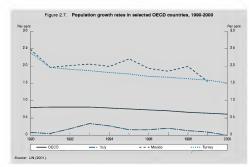


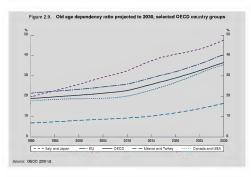
Figure 2.8. Historical and projected population trends in OECD and non-OECD countries, 1990-2020 Millions 8 000 Millions 8 000 7 000 7 000 6 000 6 000 5 000 5 000 4 000 4 0000 3 000 3 000 2 000 2 000 1 000 1 000 1995 2005 2010 2015 1990 2000 2020 OECD countries Non-OECD countries Source: UN (2001).

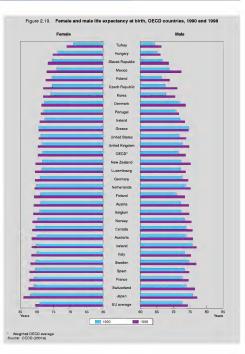
the workforce, which increases the opportunity costs of raising children increasing years spent in formal education, which increases the direct costs of raising children; and expanding old age social security systems, which reduces the need for offspring to provide assistance to their elderly parents. In some OECD countries, birth rates are now below population replacement levels. Despite immigration, total population is expected to fall for some OECD countries after 2010 (OECD, 20016).

The slowdown in OECD population growth rates has led to shifts in population structure. The proportion of people over 65 years in total population compared with the share that is of working are [16-64] – more no end of people over 65 years in total population compared with the share that is of working are [16-64] – more no ender the dependency ratio – is growing particularly fast. Presently, with birth rates in a number of OECD countries below population replacement levels, old age dependency ratios are projected to increase from 278 in 2000 to 37% in 2000 to 37% in 2000 to 1800 to 1

Life expectancy continues to climb

Life expectancy at birth, an important measure of welfare, has continued to grow in nearly all OECD countries during the past ten years. These gains have been made possible through increasing resourcessing resourcessing resourcessing resourcessing resourcessing resourcessing resourcessing resources dedicated to health care, rising standards of living, better diets, public health interventions, and higher levels of education. Improvements in life expectancy at birth reflect a decline in mortality rates at all ages, including a sharp reduction in infant mortality rates and higher survival rates at older ages. [Figure 2.10]. Although the gains in life expectancy have differed across countries they are converging to





| 24

towards the levels prevailing in countries with the longest life expectancy. In some countries, however, increases in "healthy" life expectancy have not kept pace with higher life expectancy.

On the other hand, life expectancy in some central and eastern European countries, such as Hungary and Slovakia, has grown much more slowly than the OECD average. This trend is especially evident for men, and seems to reflect a combination of unhealthy lifestyles, such as diets heavy in fat, and high consumption of alcohol and tobacco (OECD, 1996).

Educational attainment is rising

A well-educated population is critical for the current and future economic and social development. Education plays a key role in providing individuals with the knowledge, skills, and competencies to participate effectively in society. OECD countries have been devoting an increasing share of their GDP to education and training during the past twenty years. As a result, the average number of years of school completed by the working age population has increased steadily in all DECD countries, particularly in countries where older adults had a lower level of attainment, such as Korea, Mexico, Greece, Spain, and Tuxkey.

Enrolment in secondary and tertiary education grew strongly in most OECD countries between 1980 and 1999, with the greatest gains again seen in countries where adults had low levels of education (Flgure 2.11). As a result, differences in the level of educational attainment between countries are shrinking.

OECD citizens are also more likely than ever before to participate in education and training programs over their lifetimes. More than one-third of all people aged 25 to 44 now participate in some form of continuing education and training in ten out of eighteen OECD countries for which data are available. Adults in these countries can now expect to participate in further education in the equivalent of 0.7 to 3.2 vest of full-time training between ases 20 and 65.

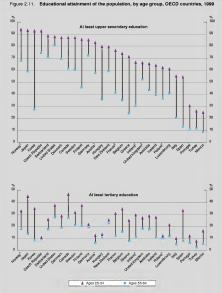
Poverty rates have risen in some OECD countries, and fallen in others

While economic growth during the past twenty years has translated into higher standards of living for most ditizens of OECD countries, not all have benefited. There is no common trend across OECD countries from the mid-1980s to the mid-1990s in the proportion of people living in relative poverty, it. Ilving on an adjusted disposable income less than 5% of the national median adjusted disposable income (Förster, 2009).³ The share of people living in relative poverty rose in some OECD countries over this period, but fell in others [Figure 2.17).

Low income is closely associated with the level and structure of employment, and with the nature of social safety ness. Most CECD countries have been successful in providing the elderly with adequate retirement income and preventing old-age poverty, although some vulnerable groups remain. But new groups at risk of poverty are emerging. In several countries, changes in abour markets, in particular high and lasting unemployment, have increased risks of low income and poverty among the working-age oppopulation. Exclusion of the long-term unemployed, combining work and family responsibilities (especially for lone parents), and the prevention of child poverty are increasingly important on the social policy agenda of all OECD countries.

OECD countries continue to put pressure on the environment, despite some progress in decoupling pollution and resource use from economic growth

OECD countries continue to put considerable pressure on their own and the global environment through unsustainable patterns of production and consumption, despite some progress in decoupling pollution and resource use from continued economic growth. Currently, with only 18% of the world's population, DeCD countries account for about 8% of world GDP and consume about 19% of world energy supplies historically they have been responsible for most of the build-up of atmospheric concentrations of greenhouse gases.

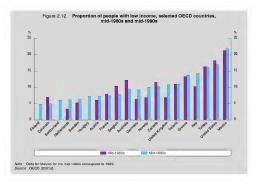


Notes: Countries are ranked in descending order of the percentage of the population 25 to 34 years of age who have completed at least upper accordancy coloration.

1. Year of interence 1998

that of treatments used.
 Not all ISOED 3 programmes meet minimum requirements for ISOED 3C long programmes.
 For detailed notes see Annex 3 of OECD (2001.)
 Source: OECD (2001.)

²⁶



Some decoupling of selected environmental pressures from economic growth has occurred in recent years. Thus, In many DECD countries, emissions and discharges of pollutants are growing more slowly than GDP or are even declining in absolute terms. The use of energy and some natural resources is also growing at a slower rate than GDP although absolute levels continue to grow (Figure 2.13). Two main reasons explain why environmental degradation is becoming detached from economic growth. The first is the increasing demand for better environmental conditions (and hence for environmental policies) that has accompanied higher incomes and the greater availability of resources to generate and adopt less-polluting technologies. The second factor is that OECD economies are undergoing structural shifts as they grow, with more polluting industries contributing less to overall national output than in earlier decades, and knowledge-intensive services contributing environmental conditions.

The key environmental challenge for the future will be to continue to further increase efficiency of resource use and to reduce the pollution intensity of consumption and production at least cost and, in particular, to tackle the problems that show little signs of becoming decoupled from economic growth. The OECD has categorised environmental issues into those for which progress has been made (green lights) those that call for continued attention (yellow lights), and those that require urgent action (red lights) (OECD, 20016).

Progress has been achieved for some areas of environmental protection

Emissions and concentrations of some air pollutants are declining. Good air quality is necessary for the health and well-being of people and ecosystems. Among the air pollutants with the greatest impact on human health are lead, fine particulate matter, heavy metals, and ground-level ozone. The contaminants

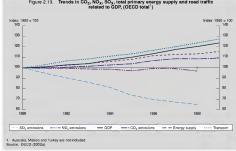


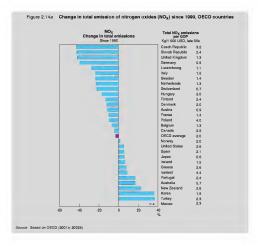
Figure 2.13. Trends in CO₂, NO₃, SO₃, total primary energy supply and road traffic

threatening ecosystems come primarily from those that cause acidification - sulphur oxides (SOx), nitrogen oxides (NO_x), and ammonia - and those affecting the climate - carbon dioxide (CO₂) and methane. Four of these pollutants, lead, SO_v, NO_v, and CO₃ come from direct emissions into the air from a variety of sources. Particulate matter can also come from direct emissions, but is most commonly formed when emissions of NOx, SOx, ammonia, and other gases react in the atmosphere. Ground level ozone is formed when NO_v and volatile organic compounds react in the presence of sunlight.

OECD countries are making progress in reducing emissions of many air pollutants. Since 1990, they have cut their emissions of NOv by 4% and those of SOv by 35% (Figure 2.14). Most countries have also cut their emissions of particulate matter, and most have nearly eliminated emissions of lead. Over the same time period, OECD country GDP increased by 60%, while fossil fuel consumption and vehicle kilometres travelled - the main sources of many of these pollutants - grew by 16% and 30% respectively.

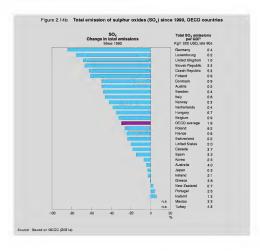
Emissions and ambient concentrations of air pollutants have fallen for a variety of reasons, Lead pollution has been cut primarily because of regulations in most countries requiring the phase-out of leaded gasoline. Reductions in emissions and concentrations of SOx, NOx and particulate matter are due largely to regulations that require coal-fired power plants to reduce emissions, and to economic factors that have encouraged many households and power plants to switch from coal and heavy oil towards cleaner fuels such as natural gas. NO_X emissions have also declined due to the introduction of catalytic converters for cars.

The reductions in emissions of these air pollutants have led to improved urban air quality in most OECD cities. Ambient concentrations of SO_X, NO_X, particulate matter, and lead fell during the 1990s, with the declines being especially pronounced for lead and SO_v(OECD, 2001b), Concentrations of SO_v and lead in most cities now meet the national standards set to protect human health and the environment. Although local air quality has generally improved over the past 10 years, many challenges remain for protecting public health and the environment, As levels of fine particulate matter and ground



level ozone still exceed national standards in some areas, most OECD countries are increasingly focusing their efforts on monitoring and controlling these two pollutants.

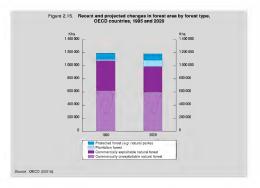
Forst ower in OECD caustries is increasing, although trayloid larests continue to decline. Forests provide a range of services to people, including wood products, recreational opportunities, employment, and ecosystem services (e.g. conservation of water resources, carbon sequestration, and sheltering of wildlife). Overall, the area under forest cover has gradually increased in DECD countries since the 1970s, and is projected to remain at current levels through 2020 (Figure 2.15). This increase is primarily the result of Increased agricultural efficiency, afforestation programmes, and of a reversion to wooded land of lands less suited to farming. Demand for wood products has also stabilised in DECD countries, reducing pressures to harvest trees. In contrast, forest over in non-DECD countries is still in decline. Annual forest loss in tropical countries may have exceeded over 15 million hectares per year since 1980 (FAQ, 1999).



A number of environmental issues continue to require attention

OECD countries have made less progress in improving the quality of river and lake water. The volume of solid waste generated is still irising, although a larger share of solid waste is being recycled, and there is a large backlog of polluted industrial and landfill sites awaiting remediation. Measures to reduce mercury pollution and to phase out presistent organic pollutians need to be intensitled, while more also needs to be done to reduce concentrations of some air pollutants that are damaging to human health (fine particulate matter and ground-level zonce) and, in some regions, to use water resources more sustainably. In some countries the productivity of agricultural soil continues to be degraded by salinsation and heavy metal contamination.

Water consumption has stabilised in most OECD countries, but some regions experience water stress. Freshwater is essential to maintain ecosystems, sustain life and well-being, and promote economic development.

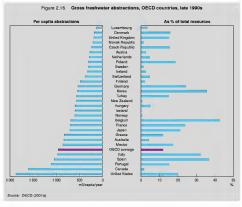


Freshwater resources also provide important recreational and aesthetic benefits. While available fresh water is abundant on a global scale, it can decline as rivers and lakes become contaminated and as water is withdrawn from underground aquifers faster than it can be replenished. At the same time, flooding in OECD countries has been exacerbated by inadequate coastal zone planning as well as by urban sorawl and infrastructure development.

Most DECD countries are well endowed with freshwater resources at the national level [Figure 2.16). However, the availability of good quality water valves significantly between countries and between different regions in the same country, While some countries are using a significant proportion of their total available water resources, for most DECD countries national water abstractions are well below levels associated with water stress. Even where water demand is within the limits of national supply, however, water stress is being seen in some regions.

Progress has been made In managing water resources In OECD countries, with per capita water consumption in OECD countries declining by 6's. Bace 1980. The decrease reflects primarily the spread of water pricing systems that encouraged users, especially firms, and households, to use water more efficiently as well as to the spread of water-saving technologies. Declines in some water intensive industries, and increases in industrial water use efficiency, have also played a role. Despite the overall trend, per capita water consumption rose during the 1996s in some OECD countries, especially in those experiencing last economic growth.

Ouality of surface water has improved in some places, but not in others. While water quality in many surface water bodies has improved dramatically during the past ten years most OECD countries still do not meet their standards for surface water quality. Moreover, groundwater is increasingly under threat for



contamination and withdrawals that exceed the capacity of aquilers to recharge. A common pollution problem affecting many rivers, lakes, and coastal waters arises from excessive levels of nutrients, especially phosphorus and nitrates. Excessive levels of nitrates also affect underground aquilers. Nutrients stimulaes growth of algae blooms, which rob the water of soverpost, billing that and other aquate! Ille. Sources of organic pollutants include discharges of inadequately treated sewage from municipal treatment plants and household septic systems, runoff of fertilises and animal waste from farms, and

Most DECD countries have invested heavily during the past two decades in sewage and industrial wastewater treatment facilities. These investments have helped to mute the impact of economic growth and land-use changes on the quality of river and lake water. Unfortunately, they have not led to substantial improvements in the water quality, as lower dischanges from point sources of pollution have been offset by higher flows from diffuse sources, such as wehtcles, unhast stom-water mortification and the properties of the properties

Quantity of selfa waste is still growing. Waste is produced at all stages of the production and consumption cycle. Currently, in OECD countries, about 27% of waste comes from manufacturing, 21% from agriculture and forestry, 24% is produced by mining and quarrying, 14% results from construction and demolition, 14% from municipal sources, and the remainder from other sources. The quantities of

deposition of air pollutants.

waste produced depend on how efficiently resources are used in production processes and the use quantities of many dark and many dark and the state of the collection and final disposal of waste is a serior matter for local governments in OECD countries, who spend about one-third of their total resources for pollution abatement and countries who serior dark and the state of the

There has been no overall decline in the quantities of waste produced in OECD countries, although the amount produced per unit to private final consumption decreased slightly during the 1996 (Figure 2.17). On average, municipal waste grew at about 1% per year in OECD countries during the 1996s, a much slower rate than the 3% per year recorded in the 1986s. Because of rising populations, increasing affluence, and changing litestyles (such as a shift towards more and smaller households), the annual volume of solid waste generated in OECD countries is projected to grow by a further 40% between 1995 and 2000, to 770 million tons (OECD, 20016). The management of waste generated is between the projected that a fixing plane of in midpal waste will be expected, to reach 400 million of 100 million to 100 million 100 mil

Several environmental problems require uraent action

Still less headway has been made in dealing with some environmental issues, especially those of global importance. Particular challenges include reducing greenhouse gas emissions, managing lisheries sustainably, reversing losses and fragmentation of critical ecosystems, and slowing the loss of green space caused by urban sprair. Clobal blodworterly loss continues at an alamming pace, with critical ecosystems and the services they provide under threat IOECD, 2001/1. There is growing concern both ecosystems and the services they environment, in terms of their potential effects on both ecosystems and human health lifes 2.2. here witnessed in terms of their potential effects on the provided of the provided in the

Inclinate of the state of the s

Carbon dioxide (CQ) is the dominant greenhouse gas, accounting for 81% of emissions from DECD countries, followed by methane (10%) and introus oxide (78). Although OECD countries have reduced their emissions of CO₂ per unit of GDP by 30% since 1980, total emissions increased by 9% between 1990 and 1998) (Figure 2.18). The rise in absolute emissions is due primarily to much higher emissions from North America (increased by 11% between 1990 and 1998), which can be attributed to strong population and economic growth, energy production and consumption patterns and trends, coupled with low real renergy prices during the 1990s.

Stationary fuel combustion is responsible for 5% of greenhouse gas emissions in OECD countries, followed by transport with 1½ of emissions, then agriculture, inclustrial processes, waste, and fuel production. Transport, particularly aviation, is the fastest growing contributor to greenhouse gas emissions, with transport emissions in OECD countries having rises by 15% between 1990 and 1990.

OECD countries currently account for about 50% of global emissions of greenhouse gases and 53% of carbon dioxide (recluding land use and forestry uptake) (Figure 2.19.* Invoever, the OECD share is falling as non-OECD countries experience faster economic growth. Projections suggest that CO₂ emissions from OECD countries could grow by 33% from 1995 to 200, while those from non-OECD countries could grow by 109% (OECD, 2018). It is encouraging that the majority of OECD countries are taking the significant and positive step forward to ratify and implement the Kyoto Protocol, with its legally binding targets and timetables. Addressing the problem of global climate change in the longer term will require

1. Private linal consumption expenditure calculated at 1995 prices and PPP

Figure 2.17. Municipal waste generation, OECD countries, late 1990s Municipal waste per unit of PFC1 Japan New Zealand Luxembourg Sweden Canada United States Greece Italy United Kingdom Germany Switzerland Belgium Austria Portugal Spain OECD average Iceland Finland Ireland Norway Czech Republic Denmark Korea France Netherlands Australia Slovak Republic Poland Mexico Turkey Hungary 20 80 100 120 Kg/1 000 USD Municipal waste generation, OECD Index: 1980 a 100 150 150 attaching the same 100 100 50 50 1980 1985 2000 ----- Private consumption ---- Total waste generated - Waste generated per inhabitant

Source: OECD (2001a)

Box 2.2 Chemicals in the environment

In OECD countries the production, consumption and trade of chemicals and chemical products has grown steadily and is projected to continue to grow through 292 roughly at the same rate as CDP. However, production in OECD is expected to shift from this volume basic chemicals to specially grow fater than in OECD countries, as much of the production of basic chemicals whits to these grow fater than in OECD countries, as much of the production of basic chemicals whits to these countries. The chemicals industry in OECD countries has made significant progress in reducing the release of prolitations to the environment during the manufacturing process. Pollutant Release and the open of the production of the

Major concerns exist about the impact on the environment and human health of substances produced by the chemicals industry, which are found in virtually every man-made product. Amay are being detected in the environment, where particular problems can be caused by persistent, bio accumulative and toxic chemicals. Concern is growing, for example, about chemicals which can lead to endocrine disruption and which persist in the environment.

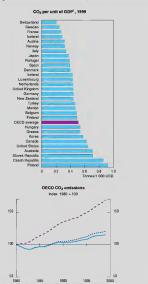
Priority is given to filling the immense knowledge gap about chemicals on the market. The international Council of Chemical Associations has a testing programme for high production volume chemicals, from which data is shared with the OECD. A scientific rules-based approach requires information on the effects of chemicals and chemical exposure as the basis for risk management decisions. A variety of instruments including ecosomic incentives, voluntary approaches, and regulation as the used to encourage the development of better chemicals information where such information is not available, more and more countries are taking a precautionary approach. In addition, governments to that "sustainable chemistry" on be achieved.

Searce OECD (2001a).

strong action by DECD countries, working in close co-operation with non-DECD countries. Historically, non-DECD countries have contributed less to the global warming problem, yet they are likely to bear a disproportionately high share of its impacts, damage, and adaptation costs (see Box 4.1). Limiting the level of climate change and its worst effects in the longer term will require all countries to take action to control their emissions in the decades to come.

Some list stocks are not being managed in a sustainable manner. Fish stocks are a renewable resource and can be harvested sustainable, providing a source of food and Incomes for the long run. Currently, however, a number of fish stocks are not being managed sustainably and stocks of many important species have declined considerably in recent years. There is concern that current fish stocks are much smaller than previously shought, due to various factors, including changes in environmental conditions, illegal fishing, and mis-reporting of fish catch by some countries. If true, urgent actions will be needed to return fish stocks to a healthy state.

While global fish catches rose throughout most of the 1980s, they have since fallen. Total catch from OCCC countries has been declining in volume terms since it peaked in the mid-1980s [Figure 22.0]. As a result, the OECD country share of world catches fell from 42% in 1980 to 31% in 1999. Capture fish production from OECD countries fell for serveral reasons, Initially, the establishment of exclusive economic zones in the 1970s and 1980s in areas where OECD-flag distant fleets were formerly active was an important factor. As well, many of the fish tode so in the fishing ergions closest to OECD countries inorth Atlantic and areas of the Facilities were already dangerously for following years of over-exploitation. Over time, commercial fishing in some of these areas has had to be shappy reduced—and even halted in a function of the second of the s



---- Fossil fuel supply

Figure 2.18. Carbon dioxide emissions, OECD countries

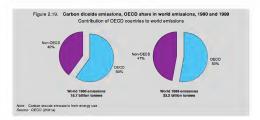
—— CO₂ emissions

Notes: Carbon daucid from energy use only; international marine and aviation buskers are excluded.

1. At 198 prince and PPP

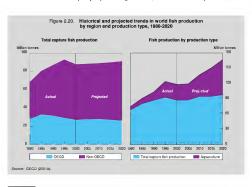
Source: OEO, GOTO (a)

- - - Gross domestic product



global production is already at a level close to what scientists believe is the maximum that could be sustained.

Currently, about three-quarters of fish supplies to OECD markets come from capture fisheries, with the remainder produced by aquaculture. By contrast with marine catches, supplies from aquaculture in OECD countries have risen by 3% per year during the 1990s, while worldwide they have increased

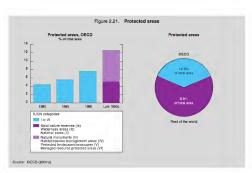


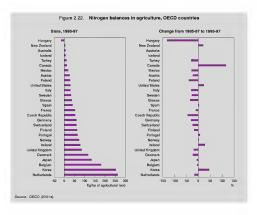
by 10% annually. Most of the future growth in fish supplies is expected to come from aquaculture, which by 2020 will represent over 40% of the total (Figure 2.20). Considerable attention is needed to manage, from the outset, some of the potentially negative impacts of intensive aquaculture production on local environments – including organic enrichment, accumulation of antibiotics, degradation of local habitats, and reductions in sengies diversible.

Exosptims and biodivirsily are tirretaned, Human activities play a significant role in shaping both marine and tremstrial ecosystems and biodiversily. The greatest threat to cosystems and biodiversily to RecCo countries arise from land use changes and fragmentation as populations increase and lifestyles change. Threats also arise from unsustrainable exploitation of wildlife, forest products, and water, as well as from pollution and the introduction of exotic species. As a result of these pressures, many natural ecosystems have been degraded or destroyed, seriously limiting the many important services they provide.

However, despite the considerable pressures on ecosystems and bloddversity, there are some positive developments. The number of protected areas is increasing in many DECD countries, and some countries are increasing the level of protection they provide to parks. Land areas under protection reached 13% of the total area of DECD countries as a whole (Figure 2.1). Countries have also taken action to protect endangered species from hunting or the destruction of their habitat. As a result, populations of some formerly threatened species have stabilised or are even increasing. Still, 20% or as mammals and amphibians in OECD countries are endangered or vulnerable. In some countries, for example New Zealand, the development of bloddwersity strategles has helped to halt biodiversity losses. Greater efforts are required in most countries, however, to decouple pressures on critical ecosystems and biodiversity from economic growth.

Agricultural pollution is increasingly affecting water resources. Agriculture is estimated to be responsible for 40% of nitrogen emissions and 30% of phosphorous emissions into surface water in OECD countries (Figure 2.22), and is the main source of surface and groundwater pollution (OECD.





20016). Methane and nitrous oxide emissions from livestock operations and rice production also contribute to global warming. The use of pesticides and their build-up in groundwater and surface water resources poses risks to the health of people and to wildlife. Groundwater systems are increasingly under threat from contamination and withdrawals that exceed the capacity of aquifers to recharge.

Support for improved environmental management in developing countries remains at low feeds. Most of the world's plant and animal species and the ecosystems on which they depend are in non-OECD countries. These face great pressures from population growth, economic development, and climate change. While these species and ecosystems lie within the territories of sovereign states, they are global resources important to all the world's people. Similarly, global climate change affects everyone, regardless of where they live. During the United Nations Confenence on Development and Environment in Rio de Janeiro in 1992, countries committed themselves to implement the Convention on Biological Diversity and the UN Framework Convention on Climate Change, and isince then) the Convention to Combat Desertification. Some institutions or mechanisms, such as the Global Environment Facility (GEP) and the Montreal Protocol Multilateral Fund provide financial support to enable countries to comply with multilateral environmental agreements or conventions, but overall transfers to support environmental management remain low.

OECD countries are making some progress in improving governance for sustainable development

One of the most important ways in which current generations can contribute to sustainable development is by establishing institutions that ensure the stable functioning of societies and economies, encourage innovation and creativity, and provide the framework within which all citizens can achieve their potential. Achieving these goals requires, above all, approaches to governance that foster citizen participation in policy-making and that promote integrity, transparency, and accountability in the management of public resources. Many OECD countries have taken important steps in this direction during the 1990s.

Integrity, transparency, and accountability are necessary for good governance

Integrity, transparency, and accountability are fundamental conditions for governments to provide a trustworthy and effective framework for the social, environmental, and economic file of their citizens. Citizens expect public servants to serve the public interest with fairness and to manage public resources properly on a daily basis. OECO countries have been working together to promote good governance in both the public and private spheres, including through recent initiatives such as the 1998 OECO. Recommendation on improving Ethical Conduct in the Public Service, the 1997 OECO Convention on Combating Bribery of Foreign Public Officials in International Business Transactions, the OECO Guidelines for Multinational Enterprises, and the OECO Principles of Corporate Governance.

The rapidly changing socio-economic conditions, especially the growing demand for transparency, requires that governments review and adjust mechanisms to ensure that behaviour corresponds to what is expected, in accordance with the cultural and political-administrative structure of each country. The following key elements are needed for a strong and coherent ethics infrastructure that ensures high standards of ronduct:

- Guidance: provided by strong commitment from political leadership, statements of values such as codes of conduct, and professional socialisation activities such as education and training.
- Management: realised through co-ordination by a special body or an existing central agency, and through public service conditions, management policies and practices.
- Control: assured primarily through a legal framework enabling independent investigation and prosecution, effective accountability and control mechanisms, transparency, public involvement and scrutiny.

A key challenge for governments is to adapt the mission of the public service to current needs and to ensure that its core values and standards meet rapidly changing public expectations. A modern set of core values should combine 'traditional' values, such as impartiality, legality and integrity, with 'new' values such as greater public accountability and transparency. To translate these values into practice, governments need to legislate some standards of conduct, particularly in relation to using official information and public resources, receiving gits or benefits and working outside the public service. Sensitive areas with a higher potential risk of conflict of interest, such as justice, its and eastons administration as well as the public laddininistrative interface similarly, call public can be advantage of new technology to inform citizens on standards expected of officials serving the public and scrutinise the actual performance of public officials.

Effective compliance and enforcement efforts are necessary to ensure good governance through the rule of law

Compliance with laws and regulations established to protect the environment is a necessary component of any national effort to achieve sustainable development. The effectiveness of environmental laws and regulations depends on effective compliance and enforcement programmes to regulate entities and deter against non-compliance, and reduce or eliminate the benefits that might otherwise accrue to those who fall to comply with environmental laws and regulations. An effective compliance and enforcement program includes numerous methods of monitoring and detection. Common compliance monitoring techniques in OECD countries include inspections, self-emonitoring and self-reporting, and citizen complaints. Inspections are conducted by government inspectors or independent pariets working on behalf of the government Self-reporting is conducted by regulated entities that monitor their own compliance with environmental laws and regulations and eport the results to government. These techniques can be supplemented by encouraging citizens to approximate the properties of the properties o

Opportunities for citizen participation are expanding

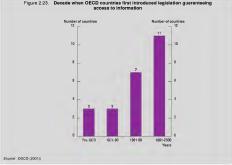
Governance systems in all OECD countries are based on the principles of representative demoracy. Free and fair elections, representative assemblies, accountable executives, and a politically neutral public administration are elements of representative democracy, designed to ensure that government represents the citizens. Strengthening mechanisms for citizen participation in policy-making improves the quality, credibility, and legitimacy of decisions. It allows governments to tap new ideas, information, perspectives, and potential solutions in making decisions. It allows governments to tap new ideas, information, perspectives, and potential solutions in making decisions. It allows governments to tap new interest in government and to strengthen democracy. In response to public demand, new forms of prepresentation and types of participation are emerging in DCGD countries, and long-standing ones are being revitalised. Widespread access to new information and communications technologies (ICT) are expanding the opportunities for citizens to influence decisions that affect them.

Measures to enhance public participation fall into three categories, depending on the extent and depth to which officers are involved in decision-making. The first is a one-way flow of information. This includes public notices, public information campaigns, or simply making information available to those who seek it. The second is consultation — a two-way relationship in which citizens provide feedback to government, through surveys and focus groups as well as more interactive forms such as public hearings and solicitation of public comments. Governments define the issues for consultation, formulate the questions and manage the process, while citizens are invited to contribute their views and opinions citizens actively engage in defining the process and content of policy-making. This process gives equal standing to citizens and governments in setting the agenda, proposing policy options, and shaping the policy dialogue, at although the final decision rests with government (OECD, 2001).

While most OECD countries have long-standing traditions of engaging citizens in decision-making, all have taken steps during the 1990s to bring government closer to the people. A prominent international example is the UNECE Convention on Access to Information. Public Participation in Decision-Making and Access to Justice in Environmental Matters (Anhius Convention, 1998). The Convention, which entered into force on 3 October 2001, has been signed by 40 countries and ratified by 17, it alims as strengthening civic involvement in environmental issues, including through internationally binding recognition of information, participation possibilities; access to Justice in environmental issues as every person's right: the establishment of minimum standards for access to environmental information, and requirements for rapid replies to requests for environmental information.

Provision of Information is now an objective shared by all OECD Countries, Laws establishing the right to information – swell as the institutional mechanisms to enforce these rights – form the basic building blocks for transparency and accountability. The scope, quantity, and quality of Information that OECD governments are providing to differen increased greatly during the 1990s. While some OECD countries adopted legislation decades ago guaranteeing citizens access to information, nearly 40% citi do during the past decade (Figure 23.) All but a few countries now have freedom of Information laws in place.

Consultation is on the rise, but slowly. Most OECD countries have only recently recognised the importance of consulting with citizens on a regular basis, and most are still developing their legal, policy, and institutional frameworks for consultation. Large differences remain between countries with long-established



traditions of consultation and countries that are only beginning to open up government processes to citizens. There are also large differences among countries in the balance between public and private

During the 1990s, several countries adopted policies requiring governments to hold public local consultations on new regulations, in line with the 1995 GECD Council Recommendation on improving the quality of government regulation. Many countries, as well as the European Union, adopted laws on environmental impact assessment that give the public a prominent role in determining the fate of potentially environmentally-damaging projects or regulations. Some have established permanent or affer bodies that include civil societive organisations to advise the government on particular issues.

financing of electoral campaigns and in limitations placed on the activities of lobbyists.

Active participation is still raw. Citizens can make an active and original contribution to policy-making when their relationship with the government is founded on the principle of particership. In OECO countries, efforts to engage citizens as full partners in policy-making remain rare, tend to be undertaken on a pilot basis only, and are confined to very few countries. While a few countries began during the 1998s to develop policies to more actively engage citizens in decision-making, most have limited their activities to collecting good practice examples, raising awareness, and developing guidelines for participation. Active participation to achieve domestic good governance is most effective when members of the public have access to administrative and Judicial appeals processes to challenge government and private sector actions that may impact on them.

Public participation can foster greater transparency in policy-making and encourage accountability through direct public scrutiny and oversight. Increase trust in institutions, and improve the substantive quality of decisions. Participation also helps participants to understand the goals and perspectives of others by fostering communication and building relationships. Finally, public involvement can help reduce opposition to decisions, smoothing their implementation.

However, creating mechanisms for participation that achieves these goals poses significant challenges. Are surveys better, or public forums? How can we assess whether the aspirations and interests of the broad public, not just those of lobbytsts, are taken into account? How can differences in expert and lay judgements of risks and priorities be resolved? How much time and resources should be devoted to participatory processes addressing particular issues? How can the impact of participatory processes be measured? These are questions which OECD countries are just beginning to explore, and the answers are not ver clear.

New approaches to international governance are emerging

Today, many challenges which could previously be dealt with at the national level have become global. Action at the global level is essential for a number of issues – such as regulation of the internet, arresting climate change, avoiding financial bubbles, halting the spread of epidemics such as HIV/AIDS, and preventing terrorism – but should be complemented by action at the regional, national, and local level. Successfully addressing issues of global importance calls for new systems that allow these issues to be addressed at the international level. CECC outnites have actively supported the development of better structures for international governance during the 1990s, and place high priority on this issue for the future.



OVERCOMING THE BARRIERS TO SUSTAINABLE DEVELOPMENT

Maintaining the high standard of living that citizens of OECD countries enjoy, while addressing social concerns and improving environmental management, is a challenge. It requires the reform of old policies, the development of new ones, and the better implementation of those known to be effective. Key framework conditions necessary to achieve this goal within specific countries include:

- Making markets work for sastainable development: the reform of the price system to encourage
 inclividual agents to take the full costs of environmental degradation and social impacts into
 account in their decisions. This includes taking account of environmental and social externalities and market failures through greater use of taxes, charges and tradable permits and correcting policy failures through reforms of support programmes that are environmentally damaging, economically inheficient, and/or have socially regressived distribution effects.
- Strangthening the praces of decision-making for asstalanish development the reform of government decision-making processes to allow more integrative approaches to the full range of consequences of their policies. This includes improving the capacity for policy integration for sustainable development and enhanding transparency and public participation at all levels of government.
- Estains sastainable development through science and lectinology: the use of technology policies to help decupie environmental degradation from economic growth. This includes providing permanent incentives to innovate and diffuse technologies that support sustainable development objectives upporting found; erm basic research and research that is dealy in the public interest through funding and efforts to build capacity; and addressing unintended social or environmental consequences of technology.

Strengthening the contribution of the International trade and investment systems to sustainable development worldwide is another key framework condition (see Chapter 4).

OECD countries have made progress towards applying these framework conditions, and in recognising the mix of policy instruments that can help to achieve Improvements simultaneously across all three dimensions of sustainable development. The mix of policy instruments required to address a particular issue or that will be appropriate in a particular country will vary depending on droumstances, but the conditions outlined in the following sections provide an essential framework in which to develop appropriate policies.

In many cases, however, significant obstacles – both political and reflecting a lack of adequate information – have slowed or even blocked progress in implementing appropriate policies. Essential for overcoming these obstacles and realising sustainable development is the integration of environmental and social concerns with economic and sectoral policies. Achieving this integration requires institutions and governance structures that can balance the sometimes competing objectives between the different dimensions of sustainable development.

Making markets work for sustainable development

OECD countries have historically intervened in domestic and international markets through a range of measures, including subsidies, taxes, regulations, trade barriers, and price controls. Most OECD countries have been reforming their policies over the past decade to expand the role of markets in allocating resources in order to improve the efficiency and leability of their economies systems, and to internalise external social and environmental costs, although many distortions remain. Many countries have reformed their tax systems, reducing income texes and increasing the contribution of consumption taxes in total tax revenues. A number have taken steps to reduce or reform subsidies, lessen trade barriers, eliminate price controls, and taken other measures to de-regulate markets. A lew of the more prominent reforms with implications for sustainable development are described below, as are the limitations of the reforms involvement thus fax.

The use of environmentally related taxes and charges is expanding

Several OECD countries introduced or increased the use of their environmentally related taxes during the 1990s, as part of a general trend towards green tax reform (see, for example, Box 3.1). Environmental taxes provide direct incentives for consumers or producers to alter their choices which negatively impact the environment, while allowing them the maximum lieibility in how they dos to ill properly designed, they can be economically efficient and environmentally effective. A number of OECD countries have used higher revenues from environmentally related taxes to finance reductions in to possible to the contribution of the contribution

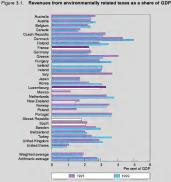
While some OECD countries increased the shares of environmentally related taxes in their total tax revenues over the last decade, others reduced them [Figur 8.1], Revenues in OECD countries from environmentally related taxes amounted to 7% of total OECD tax revenues, or 2.5% of GDP in 1997. Environmentally related taxes in OECD countries so the heavily concentrated on motor titles and vehicles, with revenues from these sources contributing to more than 90% of the total. Taxes on waste collection, of disposal and tereatment, water abstraction, mineral extraction, pollution, and packaging make up the

Box 3.1. Ecological tax reform: the German experience

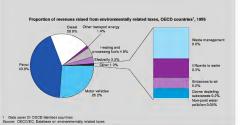
A recent example of green tax policy is the German tax reform of 1999, which comprised an increase of mineral oil duties and electricity taxes. The extra revenue is used to reduce pensions insurance contributions by 0.8 percentage point (half in employees and half in employees" contributions, as part of a comprehensive profit amined at achieving a "double dividend". In a second phase of the reform, the tax operations are contributions are between 2000 and 2003. The pensions insurance contributions are being correspondingly reduced by 1.8 in 2000, and will be neduced by a further 0.35 per year through 2001, amounting to a total card of 1%.

The tax reform represents an explicit policy of tax shifting, designed to reduce both CO, emissions and unemployment. In addition to the reductions in insurance contributions, a portion of the revenues raised is used in a market incentive programme for renewable energies. Initial reviews indicate that the tax reform has decreased fuel consumption in Germany, and encouraged markets for less environmentally damaging whiches and rail transport.

Source Based on OECD, 2001j.



Note: All data for France, Luxembourg, the Slovek Republic and the 1999 data for New Zealand and Spain are low-end Secretanat estimates.



remaining 10%. Ideally, the taxes should be set to reflect the full external environmental and/or social costs of consumption and production decisions, thus internalising those external costs into the decisions in addition to the private costs. For transport, for example, external costs include the effects of pollution on ecosystems and health, greenhouse gas emissions, road accident costs, noise, and congestion costs. Taxes should be applied to all energy sources—fossil fuels, nuclear power, renewable energy sources, fects illuels, nuclear power, renewable energy sources, fects illuels, nuclear power, renewable energy sources, fects illuels, nuclear power, renewable energy sources, fects and energy sources, fects and sources and power into the sources of the s

However, few environmental taxes in OECD countries have been set based on an explicit assessment of external costs. Sometimes taxes set on competing products (ϵ_{θ} different fuel sources) are set such that the more polluting option is taxed less, rather than more. Thus, OECD countries impose no or low taxes on cod or coke, even though their combustion results in much higher emissions of carbon, sulphur, and particulate matter than more heavily-taxed illematives such as natural gas. Silmailar, most countries have imposed much higher taxes on petrot than on diesel, although from an environmental perspective, diesel has traditionally been more polluting than petro, particularly in terms of small particulates.

Furthermore, most of the environmental taxes applied in OECD countries fall on consumers, while producers – particularly large enemy-intensive industries – receive significant exemptions and tax rebates; These exemptions and reductions significantly limit the effectiveness of these taxes to reduce emissions or other environmental pressures at least cost, in general, these reductions and exemptions are provided to reduce the potential heagsive impacts of the taxes on the competitiveness of the industry affected when international competitors are not similarly taxed. But alternative solutions exist that can preserve the incontive to substitute, while maintaining an even playing field for the sector (see pages 75-759).

The use of environmental taxes and charges appears to have been effective in achieving a number of environmental goals. In Dennank, the tonnes of cadmium batteries turned in for said edisposal tityfied in the twelve months following the introduction, in 1996, of a tax-rebate scheme on the batteries. In Brisbane, Australia, water demand ellib 30% in the two years following the adoption of volume based water charges in 1995-1996 (DECD, 2001). The higher taxes on petrol and vehicles in Europe compared with the US, along with geography and infrastructure, has contributed to a per capital consumption of fuel for transportation in Europe that is one-third flower than in the US. And general increases in half of all OECD countries (Box 3.1). The effectiveness, however, or environmentally related taxes depends on many factors, such as whether reasonable substitutes are available (e.g. lithium batteries), and whether the tax rate applied is sufficient to induce behavioural changes.

Box 3.2. Water pricing schemes are spreading in OECD countries

During the 19%, many OECD countries introduced comprehensive water pricing systemes. These were designed to shift the burdon of Inanian; water supply and vasterwater treatment systems away from some control of the pricing of the state of t

Less progress has been made in reforming pricing systems for irrigation water. In most OECD countries, tariffs for agricultural water use continue to be based on surface area irrigated. Moreover, farmers typically pay just the operating costs of supplying water, while taxpayers finance the capital costs in some OECD countries, farmers pay nothing at all for irrigation water.

Source. OECD (1999c)

OECD countries are reforming subsidy schemes, but the pace is slow and uneven

Many DECD countries committed to reducing their subsidies to energy production or fuel issuch as coal), or to reducing and changing the structure of their support in some sectors (e.g. to agriculture) to reduce the negative effects on trade, the economy, and the environment, Progress, however, has been slow (Table 3.1). Subsidies for energy production in OECD countries, Intended mainly to protect domestic producers and maintain employment in these industries, are estimated to be around USD 20 billion per year lited, 2001; A third of these energy subsidies support coal production, although coal subsidient OECD countries fell by 5% between 1991 and 2000 (IEA, 2001). Subsidiest production is remainted to DECD countries fell by 5% between 1991 and 2000 (IEA, 2001), Subsidiest production is remainted subsidies.

Table 3.1. Trends in subsidy levels in OECD countries

		Billion USD	Comparison
	1990	Most recent data [date]	Companson
Agriculture Marine capture fisheries	351	311 [2001] 6 [1999]	Equivalent to 1.3% of GDP Equivalent to 18% of landed value
Coal production Industry	11 44	6 [1998]	

Note. Data are not comparable across sectors. Aprocluture total support estimate for aproclutur including market price support and essenties support Tablerias government filancial translers to manies optiver filancias cos naticuldes market price support filancias government filancial translers to manies capture filancias cost naticuldes market price support and translers of the support filancias government filancial support filancias government filancias filanci

Saurce OECD (2001£, 2002c)

Government financial transfers to the marine capture fishery sector in OECD countries amounted to around USD of billion in 1999, representing 18% of the total value of landings (OECD, 2001). Most transfers now go to general services devoted to fisheries infrastructure and to expenditure on activities for ensuring the sustainable use of fish stocks and the aquatic coopsystem. Over the years, however, some transfers have contributed to over-capacity in fishing fleets and to over-fishing of some fisheries. Many of these transfers still persist, and are preventing or inhibiting necessary structural adjustments in recent years, OECD countries have increasingly been directing transfers towards removing capacity, in 1997, they spent USD 530 million to decommission vessels and retrie flenesse (DECD, 2000). In the absence of adequate harvest and participation controls, however, payments aimed at reducing fishing effort have not improved the sustainability of resource use, as vessels that remain are both more efficient at harvesting fish and are employed for longer hours. Ensuring coherence between transfer types of transfers. Furthermore, some of the incentives for vessel or terment in OECD countries have led to an export of this excess fishing capacity to non-OECD countries, contributing to over-exploitation of resources in their fisheries: as we

Subsidies for agriculture remain stubbornly high. In 2001, total support estimates to agriculture amounted to USB 311 billion (OECD, 2002), or 13, so GDP in DCEO countries. While during the 1990s many OECD countries began to take steps to reduce and restructure the subsidies so as to discourage overproduction, reduce trade distortions, and encourage more environmentally sound use of land, soil, and water, subsidies remain high in many OECD countries and for some commodities, with harmful environmental consequences. In 2001, total support estimate to agricultural producers was 31% of the value of farm receipts, compared with 38% in the 196-1988 period.

Some OECD countries restructured their agricultural subsidy systems to reduce the distortions in production and trade that arise from market price support, shifting support to direct payments instan-Nevertheless, by 2001, market price support and output payments still accounted for nearly 70% of producer support, although it declined from over 80% in 1986-1988. To the extent that support necessary, support provided through targeted budgetary measures is preferable to price supports or subsidied tied to the use of Inputs. The former are generally more transparent, potentially less distorting of product markets, less environmentally damaging, and can be more effectively targeted. In implementing the Agricultural Agreement of the Uruguay Round of Multilateral trade negotiations, OECD countries also started to increase access to their domestic markets and reduce export subsidies for assfulful and products.

Not all subsidies are bad for the environment. Some are used to support the generation of environmental benefits. CECD countries are increasingly linking agricultural support payments to farmers' taking action to improve the environmental performance of agriculture. Some countries pay farmers who limit the use of environmentally damaging inputs, such as certain fertilisers and pesticides, or those who use organic farming techniques. Others support farmers in planting trees to reduce agricultural runorl and provide habitat for wildlife. in removing manginal land from production, or in creating or restoring wetlands, which reduces soil erosion and creates wildlife habitat. There are also substantial programmes in OECD countries that support the development and production of inerwable substantial programmes in OECD countries that support the development and production of inerwable they are used to offset the environmental damage caused by other policies that stimulate production, and many are not well trategeted to achieve specific revironmental duringer.

Despits some positive developments, much more needs to be done to reform the subsidy systems of OECD countries. Agricultural subsidies remain high, and most are provided in ways that shield producers from world market developments and encourage overproduction of the very commodities that are already selling at low world prices (OECD, 1998). Some of these harm both OECD consumers (who do not benefit from the lower world prices) and taxpayers. Moreover, most support programmes (who do not benefit from the lower world prices) and taxpayers. Moreover, most support programmes recipited to the fament, largely through extra expenditures on inputs. (OECD, 1995). Finthermore, most agricultural support payments go to large, relatively well-off, farmers, rather than the many small and medium-sized producers that may be in greater need of income support.

OECD support to production maintained by trade barriers also harms producers in non-OECD countries by making it difficult for them to break into export markets. For example, OECD country support to agriculture coupled with restrictions on imports is estimated to cause annual welfare losses of USD 19.8 billion for developing countries fequivalent to about 25% of annual official development assistance) World Bank, 2001. As such, it significantly reduces the ability of developing countries to provide the necessary resources for environmental and social sustainability.

Interest in the use of tradable permits is growing, but practical experience is still limited

The use of tradable permits for reducing air and water pollution and improving the management of natural resources expanded rapidly in the US during the 1990s, but much less so in other OECD countries. Recently, however, other OECD countries have introduced tradable permits systems and still more have started preparing them. A couple of OECD countries now use tradable permits to control emissions of SQ, NQ, and volatile organic compounds (VOCSs) lower discharges of water pollutants; reduce over-hishing and improve management of land and water resources (OECD, 2001 in 18, 39, 2000) asseveral OECD countries, the European Union, and countries in the Ballit Sea Region had either adopted or were preparing schemes to rader lights to greenhouse gases emissions. However, some adopted or were preparing schemes to rader lights to greenhouse gases emissions. However, some still a greenhouse that the Kyolor Potoccal or similar agreements on a regional basis are brought into force (IEA, 2001). The European Commission has presented a processor for a Directive on trading.

Tradable permit systems work by settling a limit on aggregate access to a resource (r_d) the amount of emissions allowed in a control region, or total carch permitted from a lishery), and then allocating rights to the resource to individual users, who can use them or transfer them to others. As with other market-based instruments, tradable permits have the potential of achieving specific environmental objectives at lowest cost, by giving polluters or users of natural resources the incentive and flexibility to implement least cost solutions. A number of challenges exist in the design and use of tradable permits.

including agreeing to the initial allocation of the permits and their initial price (if sold or auctioned), establishing mechanisms for trading, monitoring compliance, and accommodating temporary spikes in permit demand.

The available evidence shows that tradable permit systems have been highly successful in reducing emissions of air pollutants cost-effectively. For example, evaluations of the sulphur dioxide emissions trading program implemented in the US in 1995 found that, not only were targets achieved on time and without extensive litigation, but they were met at much lower cost than would have been under the command and control alternatives (OECD, 2001m). In the US, the use of tradable permit schemes also led to rapid reductions in emissions of ozone-depleting substances and in use of leaded gasoline. Tradable permit schemes have been somewhat less successful in reducing water pollution, possibly due to the specific characteristics of these resources. Researchers in the OECD and elsewhere are working to understand why tradable permits work better in some circumstances rather than in others, and use the lessons learned to improve the design of future programs. The OECD has already developed Strategic Guidelines to guide policy makers in the design and implementation of tradable permit schemes.

Voluntary approaches expanded rapidly during the 1990s

Voluntary approaches play an increasingly important role in OECD countries as instruments to achieve environmental and social objectives. In recent years, over 300 negolated agreements have been identified in the European Union, over 30 000 local pollution control agreements in Japan, and over 40 voluntary programmes managed by the federal government in the US (OECD, 1999). In contrast to regulatory and even market-based approaches. Voulntary approaches tend to be popular with those directly affected by these instruments, and thus can be used to address concerns in areas where other instruments face strong political opposition.

Voluntary approaches cover a broad range of activities involving both producers and consumers. Producers may negotiate standards of behaviour with public authorities, other firms in the same line of business, or private groups, and then allow third parties to monitor compliance. Under such agreements, firms commit to a level of environmental performance or social responsibility beyond legal requirements. The benefits of voluntary approaches for individual companies and for society may be significant. Firms may enjoy lower legal costs, can enhance their reputation, and may smooth their relationships with society and shareholders (DECD, 2001e). Societies gain to the extent that firms translate goals into concrete business practices and persuade other firms to follow their example.

To ensure that voluntary approaches achieve their objectives, governments often make clear that they will introduce regulations or market-based instruments if firms do not comply with their commitments. So far, the evidence suggests that voluntary measures play a positive but limited role in policy mixes for achieving sustainable development. Care has to be taken when designing voluntary agreements to ensure that they lead to additional actions compared with what would have occurred without their use, that transaction and monitoring costs are minimised, and that they are the most cost-effective instrument to address the societic roblems trazeted.

Although they are voluntary, businesses that are party to such agreements may come under strong pressure to adhere to them. The revised DECD Guidelines for Multinational Enterprises adopted in 2000, provide a good example of this type of voluntary initiative (Box 3.3). Through international direct investment, multinational enterprises can bring substantial benefits to home and host countries by contributing to the efficient utilisation of capital, technology and human resources and can thus fulfill an important role in the promotion of economic and social welfare. But concerns exist that multinational enterprises may take advantage of less strict regulatory conditions in host countries to reduce their environmental and social performance. The OECD Guidelines for Multinational Enterprises provide a process by which business, governments, and stakeholders can engage in a dialogue on appropriate standards of responsible behaviour and on the means by which to achieve compliances.

Box 3.3. OECD Guidelines for Multinational Enterprises aim to maximise benefits of foreign direct investment

Through international direct investment, multinational enterprises can bring substantial benefits to both home and host countries. The common aim of Member countries is to encourage the positive contributions which multinational enterprises can make to economic and social progress and to minimise and resolve the difficulties to which their various operations may give rise.

The OECD Guidelines are recommendations to multinational enterprises, operating in or from the adhering countries, on appropriate conduct in such areas as labour standards, environment, human rights, consumer protection, and the fight against corruption. The Guidelines also include recommendations on corporate disclosure and transparency to reflect the OECD Principles on Corporate Governance and to encourage social and environmental accountability. All OECD countries and six non-OECD countries (Argentina, Brazil, Chile, Estonia, Lithuania, and Slovenia) have approved the recommendations, which are part of a larger package of investment instruments (the OECD Declaration on International Investment and Multinational Enterprises).

Although the Guidelines are not binding on multinational enterprises, governments are committed to promoting their observance. To do so, each government has established a national contact point responsible for promoting use of the Guidelines and for considering concerns about the conduct of multinational enterprises in relation to the Guidelines. The national contact points submit a report each year to the OECD Committee on International Investment and Multinational Enterprises, which is responsible for clarifying the meaning of the Guidelines and overseeing their effectiveness.

Source: OECD (2000a)

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In addition to negotiated agreements, businesses may also unilaterally adopt codes of conduct applicable to their worldwide operations, often in response to consumer concerns. During the 1990s, many firms based in OECD countries pursued policies to promote social development and improve the environmental management in their operations. For example, several restaurant chains now purchase coffee solely from co-operatives of small producers, and most chemical manufacturers have voluntarily committed to meet specified standards for performance in health, safety, and environmental protection through the Responsible Care programme (OECD, 1999d).

Voluntary approaches in OECD countries also target consumers, tapping into their concerns about health, working conditions, and environmental quality. Initiatives such as labelling schemes or public information campaigns, which provide consumers with information on the origins or characteristics of products can increase consumer awareness of the environmental, social and health impacts of their consumption decisions. OECD governments have recognised that they have a special responsibility to lead the way in changing consumption patterns, for example through the development of green public procurement practices and through the consideration of environmental impacts of infrastructure development.8

Providing information on efficient use of vehicles or appliances, on options for waste disposal, and on many other topics can encourage consumers to change their behaviour and act in ways that lead to more sustainable consumption patterns (see Box 3.4). Energy labels are one example. During the 1990s, most OECD countries passed legislation requiring appliance manufacturers to post energy labels on their products, giving consumers information on the energy efficiency and operating costs of alternative products, which they can use to make informed choices. Energy labels have also encouraged manufacturers to improve the design of their products.

Other eco-labels identify food and other products that have been produced in a way that protects the environment or promotes the humane treatment of animals, attracting consumers who value these attributes. To be effective, the information provided should be relevant, science-based, concise,

Box 3.4. Achieving sustainable consumption

Many of the consumption patterns prevailing in OECD countries are or will be unsustainable over the longuage. In terms of the demands they make on natural resources and the pollution and waste they generate. Energy, transport, and waste are areas of particular concern Policies are needed to shift the structure of consumption and production—not necessarily reducing total consumption—so as to reduce environmental immacks and to ensure more equivaled access to the resources available.

The policies available to encourage sustainable consumption include economic instruments such as taxes and charges to internalise the external social and environmental costs of goods, and encourage development of new environmentally beneficial technologiesi, regulatory limitations or standards for example, building insulation standards, product standards, social instruments and voluntary approssiisuch as information campaigns, eco-labelling schemes; In general, OECD work indicates that such policies should:

- Differentiate between the types of consumption, rather than applying to aggregate consumption.
- · Change both the products and infrastructure, and the attitude of consumers.
- . Be part of an integrated package of measures.
- Where possible, interventions should be targeted upstreams in the production process on producers, suppliers, or at the raw material extraction level.

Storce OFCD (2002d)

understandable and credible. Governments, industry groups, and non-governmental organisations in several DECD countries are now setting standards for the production, handling, and processing of various products (r.g., organic agricultural produce), so that labels provide consumers with consistent information about the environmental, social, or health impacts of these products. Care must be taken to ensure that such schemes are voluntary and promote innovation. They should not present trade barders, in particular to small producers or to imports from producers in developing countries in some cases, advice and technical assistance may be needed to help small producers and developing country exporters to meet national standards in the country of consumption.

Strengthening the process of decision making for sustainable development

A weakness in the governance frameworks of OECD countries is the inability to bring coherence across a range of policy areas, a necessary condition for achieving usustainable development. In addition to the sound governance frameworks mentioned in Chapter 2, achieving sustainable development also requires specific approaches to decision making that improve coherence across a range of policy areas, approaches that better integrate economic, social, and environmental concerns in policies, and take account of longer-term concerns (DECD, 2002t.)

Coherence and integration of policies is improving

Systems of governance in OECD countries are often not adapted to ensuring coherence across policy areas or to taking a longer-term perspective of the consequences of policy decisions. This is because policies intended to meet economic, social, and environmental goals are made by different ministries or agencies, often with little attention to policies being developed by other entities. Thus policies pursued to achieve one objective may sometimes conflict with those adopted to meet another. For example, policies which support or protest agicaltural production in OECD contines may conflict on example, policies which support or protest agicalturals production in OECD contines may conflict chemicals in addition, the pace of electroal cycles and difficulties in evaluating long-term trends have, in some cases, made it difficult for governments to take a longer-term view in making decisions.

Although experience is still limited, some OECD countries have taken steps in the past decade to better integrate the various dimensions of sustainable development in policies and to balance the needs of people living today with those of luture generations. For example, some OECD countries have established inter-ministerial badies focusing on sustainable development, including the Presidential Commission on Sustainable Development created in Korea, the Australian Sub-Committee of Cabinet on Environmental Sustainablie Development. While the exact functions of these bodies vary, all are charged with raising awareness of sustainable edvelopment while development among the general public and government officials; reviewing progress sowards achieving sustainable development, and building consensus on actions needed for further progress. While these bodies are new hew offer the promise of improving the coherence of onlicy making.

In addition to Integrating policies across sectors, DECD governments are working to strengthen coherence of policies across different levels of government (see, for example, 8to 3.5) (DECD, 2001). Sub-national governments often bear primary responsibility for implementing policies developed at the national level, including policies concerning education and health services, economic development, waste management and water supply. To do so effectively, they need to be able to influence policy design at the national level, and participate in decisions on how they should be implemented, including how the costs of implementation are shared. Strengthening the coherence of International governance for sustainable development, including ensuring that trade and investment liberalisation are mutually enforcing of widely-shared environmental and social objectives, is also essential (see also Chapter 4).

With levels of urbanisation in OECD countries approaching 80%, the capacity of city governments to integrate policies in support of sustainable development also needs to be strengthened. OECD experience with the reform of metropolitian governance systems shows that urban government structures presently in place are often outdated and not well adapted to solving such problems as sprawl, salety, congestion, regeneration of older areas, and environmental degradation, which affect the quality of life and economic opportunities of the entire reason of which it is a part (DECD, 2001). Envirance observed.

Box 3.5. Holistic institutional approaches to sustainable development: the UK experience

A number of tangible steps have been taken in the UK to develop the institutional framework for sustainable development and the roles of different actors in it. including:

- Control generates. The 1999 strategy for sustainable development for the UK, highlighted the importance of hallenging traditional "silor policy and decision-making processes. The control of "joined-up" thinking has been distreted, though it has been difficult to achieve. A Parliamentary scrutiny committee, the Environmental Justil Committee, has been established, the remits of the Cabinet Committee and the Interdepartmental committee of "Green" Winisters have been strengthened, and the multi-sectoral advisory body, the Sustainable Development Commission, established. They seek to place sustainable development closer to the heart of government policy-making, and to decision-making in other sectors.
- Regissed gerrement: following devolution, good progress has been made in Wales, Scotland and Northern Ireland. In England, all regions now have regional sustainable development frameworks in place. These have been agreed by a partnership of regional bodies including Government Offices. Regional Development Agencies, icoal government and the business and voluntary sector They will provide a strategic focus for the region, and form a link between national and local policy.
- Local government has new responsibilities and opportunities through initiatives such as New Deal for Communities itackling social exclusion, best Value (improving local authority services) and community strategies prepared by Local Strategic Partnerships which involve local people in setting priorities (building on Local Agenda 2).

Source OECD (2002e).

between local policy objectives and resources and those at the regional or national level is not easy. The challenge is to create systems of governance that facilitate planning across jurisdictions.

Progress towards sustainable development needs monitoring

Monitoring and the reporting of performance are important steps in any internal management system. Monitoring provides valuable leedback on progress towards goals, and facilitates policy adjustments needed to ensure that implementation remains on target. Monitoring is also an important aspect of accountability, in turn, accountability relies on good information and analysis, and a williagness to alter priorities in the face of changed circumstances. Transparency in reporting the results of that monitoring is therefore important, as are incentives to encourage participants to improve their performance. Such incentives also help to convince third parties of the credibility of the system in place. Inadequacies at any one of these levels raises public concerns about the effectiveness of soverment policies.

A few OECD countries have established new autonomous institutions to monitor and report on progress towards achieving sustainable development goals, including the UK and Canada (Box 3 6). The OECD also supports its member countries in monitoring national progress towards sustainable development goals, for example though regular reviews of country's environmental performance, energy notices, and economic notices see also Annex II.

Box 3.6. National institutions to monitor progress towards sustainable development: the Canadian experience

Countries are increasingly recognising the necessity of bringing together information on economics, social, and environmental trends for a complete understanding of progress towards sustainable development. Independent scrutiny of the results plays an important role in identifying the gap between goals and actions, in naising awareness, and in developing recommendations to governments for future action. In this spirit, Canada established the position of Commissioner of the Environment and sistandable Development. The Commissioner is independent of the government and is responsible for holding the government accountable for greening its policies, operations, and programmens in particular Commissioner views departmental strateges for sevantiable development, monitors and reports studies on the cutting of quo of environmental and sustainable development issues. The Commissioner processing an annual processing annual processing an annual processing annual processing an annual processing a

Source: OECD (2001f)

Monitoring progress towards sustainable development and informing the public and other stakeholders about results, also requires appropriate indicators. A number of SECD countries have developed indicators of sustainable development during the 1990s, and are using them in planning, programming, specifying policy objectives and priorities, budgeting, assessing performance, and communicating with the public. The OECD is now working to reach consensus with countries on indicators it can use to report on country progress towards sustainable development, and is developing a framework for the use of these indicators in the open review processes of the Oranisation.

Long-term approaches to decision-making are necessary for sustainable development

While during the 1990s a number of DECD countries began the process of creating institutions that foster integration, and to reform working practices within government to overcome the problem posed by traditional segmentation, less has been done to increase capacity to systematically consider the consequences of current actions on future generations. There is a strong need in most DECD countries to improve their analytical capacity for long-term integrated analyses, through which the interlinkages between environmental, social, and economic development could be thoroughly assessed.

The institutional structures in most countries are such that the long-term impacts common in many areas of sustainable development, are not adequately considered in decision-making. The pace of electroal cycles, the short-term nature of most economic agendas, and the difficulties inherent in evaluating long-term trends all pose challenges. In some cases—such as assuring the economic security of elderly people and mitigating climate change—the result has often been an inability to incorporate a longe-term view in current policy decisions in general, there is a failure to consider sufficiently uncertainties regarding the long-term policy decisions in general, there is a failure to consider sufficiently uncertainties regarding the long-term policy decisions in general, there is a failure to consider sufficiently uncertainties regarding the long-term policy decisions. The proposed in the superior of the consideration of the proposed in the proposed

A few OECD countries have begun to research the long-term impact of policy decisions on sustainable development, but efforts have been limited so far. Positive examples include research on the longer-term integrated environmental and economic impacts of sectors such as agriculture, with view towards generating policy-relevant information and strengthening the links between policy-makers and scientists.

Fostering sustainable development through science and technology

New scientific knowledge and technology are among the Important legacies people can leave to future generations to ensure the sustainability of development. Scientific advances and technological change are also the main drivers of economic growth, wealth creation and social well-being (OECD, 2001p). New scientific and technological advances have led to dramatic increases in life expectancy in both OECD and developing countries, contributed to our understanding of how the earth's life support systems function, and helped to focus attention on emerging problems requiring immediate attention, such as global climate change.

New technologies are making it possible to economically recover more ore from mining waste, purify wastewater to a higher standard, and reduce pollution from burning fossil fuels. Science and technology can help address other key environmental issues through cleaner production, bioremediation, and feral pest and weed control Specific new technologies have the potential to improve sustainability and performance, including in the areas of biotechnology, alternative energy production technologies, below-monitorine, and diagnostics.

Developing and disseminating new knowledge and technologies – within the OECD area and beyond – requires policies that protect intellectual property rights and encourage investment in innovation. Priorities include maintaining a stable macroeconomic framework, promoting good governance, and investing in education and infrastructure. By assuring that environmental externalities are reflected in the costs of production and in the prices of goods and services, governments can help stimulate the development and adoption of new, cleaner technologies by the private sector. Also important are policies to encourage partnerships between government. Industry and academia, so as to mobilise finances for R&D and nessure that the knowledge generated is widely shared. Special action may be required to ensure that the poor are able to benefit from important developments, such as drugs to treat HIV/AIDS. Finally, openness to trade and forelga direct investment plays a key role in fostering innovation by exposing local firms to a wide range of new ideas and knowledge, and providing them with the incentive to improve their own products.

Government programmes of research, development, and dissemination of new technologies need to the carefully designed so as not to substitute for private efforts, or to support the development of products that may be environmentally or economically inferior to alternatives. But government support to RED may be needed to corect market failures in scientific and technological development. This includes public funding of basic research as well as developing technologies with large public benefits that risk underinsement by the private sector. To address sustainable development concerns technology priory needs to be more closely integrated with environmental policies, and government technology priory ments should be oriented more towards environmental and social goals (OECD, 2002). Examples include the

development of medications that prevent and treat HIV/AIDS tuberculosis, and malaria; research that raises the productivity of food crops that are important in less developed countries, such as cassava, sweet potatoes and manioc and basic research into new forms of more sustainable energy.

Technological change sometimes results in unintended economic, social, and environmental consequences. Innovations that address one problem (e.g. abbestos to prevent fires from spreading may generate a new one (e.g. lung cancer). Governments can improve their risk management capabilities by ensuring that their own experts are up-to-date on new scientific and technological evelopments. They can regularly communicate with experts from diverse fields on potential technological benefits and risks, and maintain generate openenses to societal concerns about new technologics. The prevent potential condities of interest, government agencies responsible for protecting the public interest on health, safety, independently from the zerous or acencies promoting their adoption.

Overcoming obstacles to policy reform

There is considerable scope for continued economic, social, and environmental gains from better policies and technologies in OECD countries. However, significant barriers exist to the adoption or full implementation of many of these options, in particular political obstacles and knowledge and information agaps. The OECD is now conducting work to better understand how countries can overcome obstacles to the implementation of appropriate sustainable development policies, as requested by Ministers in 2001. Some of the preliminary lessons from this work and previous OECD analysis are presented here.

Dolitical ofictacles can be overcome

Firms and individuals that benefit from existing policies often resist reforms, even when the reforms generate net benefits for society as a whole. Because the benefits to policy reforms are often more widely spread than the losses—generally accruing to consumers or taxpayers overall, rather than a specific sector of income group within society – those who would be one from the reform have greater reason to object to it than those who would benefit it is a result, the losers tend to have disproprioriate political influence. Even those who stand to gain from reforms often resist reforms and support policies that grant special privileges to certain groups, such as farmers, fishers, or coal miners. Many members of the broad public regional or rural occomic, development increasing access by the poor to basic commodities maintaining the competitiveness of, and employment in, specific firms or industries; reducing dependence on imports of critical commodities, and protecting the environment.

From the government perspective, decisions to work towards policy reforms should be based on an assessment of the full costs and benefits of the existing policy, and of the alternative policies available for achieving the same objectives at less cost to society. They must aim to implement a co-ordinated approach to economic, environmental, and social policy, if the social and environmental aspects are to be addressed effectively in the context of national policies. Recognising that many existing policies are ineflective, costs and potentially environmentally damaging, CCCC countries have strated processes to improve their economic and environmental performance. However, as shown at pages 49-50, progress in the implementation of these policy reforms has been solw because of the significant botascles.

Priority areas for subsidy reform are:

- phasing-out environmentally-harmful subsidies and making remaining ones conditional on the achievement of specific environmental aims;
- reducing discrepancies in domestic support that are not justified by the public goods that different sectors may provide;
- · better identifying and quantifying different types of subsidies and their effects;
- helping those adversely affected by reform through transitional measures to smooth their employment adjustment and to upgrade their skills and employability; and

· encouraging the creation of efficient markets to provide environmental services.

OECD country experiences have indicated a few of strategies that can help to overcome these political barriers, in particular gaining the co-operation of the people and communities that lose the most from the reforms, overcoming concerns about loss of competitiveness, and gaining the support of the broad public.

Gaining the co-operation of the people and communities that lose the most from the reforms. Reforming policies often requires the co-operation of the people and communities who will lose the most from the implementation of new policies. Consulting extensively with these people and communities and involving them in developing programs to help them through the transition can be critical in reducing political opposition to reform. For employees of shrinking firms, transitional packages may include job training and job placement services. For farmers used to paying little or nothing for irrigation water, the package may include the allocation of tradable rights to water. For the poorest and most vulnerable, assistance may involve provision of direct income support or income tax credits. For communities, the packages may involve financial support to attract new firms or to develop alternative sources of employment. Territorial development approaches can help communities to adjust to reductions in subsidies by identifying and exploiting untapped local assets for development. Consultation need not necessarily result in transitional measures. Simply communicating the objectives and expected benefits of reforms can help reduce opposition to change. People may accept an outcome that seems to threaten their personal interests or treat them unfairly, if they consider it to be equitable and developed through due process as part of a larger social compact. Pre-announcing the reforms, and phasing them in over an agreed timetable, can provide time for people and communities to adjust to the changes, and increase support for the reforms.

Overcoming concerns about loss of international competitiveness. This has proven particularly difficult for OECD countries, and explains why some continue to provide subsidies to coal producers and exemptions from energy taxes to large energy users. One way of addressing this concern is for all major trading partners to introduce policy changes simultaneously. Organisations such as the OECD play an important role here. For example, the OECD lis helping countries co-ordinate reductions in agricultural subsidies by monitoring and reporting on policy developments and by providing a forum where agricultural ministers can periodically discuss the issue. OECD Tax and Environment Experts have agricultural ministers can periodically discuss the issue. OECD Tax and Environment Experts have environment assets. By highlighting the issue of tax exemptions and subsidies in its economic and environmental performance reviews, the OECD helps governments build defences against strong domestic lobbles. The International Energy Agency plays a similar role in helping its members co-ordinate their energy noticies.

Gaining fits support of the found public, it is the general public who are the potential winners from the reforms, as they pay for the benefits granted to a few. Often they do not know how much the subsidies, tax breaks, or other measures cost society, or who benefits from them. Monitoning the costs and benefits of special privileges and publicising the information can increase public support for reforms. For example, Increasing public awareness that agricultural subsidies are often inefficient in supporting the targeted farmers has helped increase support in some countries to reform these subsidies. Bringing other stakeholders and the concerned public into the consultation process can help to increase public awareness, as can targeted campains by non-government organisations.

Perhaps the most important lesson from OECD country experience is that strong and often co-ordinated political action is needed to reform subsidies, tab breaks, or other special privileges. Privileges are much harder to remove than they are to establish, so where possible countries should avoid granting such support in the first place. Experience shows that, to the extent they do grant privileges, governments should target them to a clearly defined group and offer them for a limited time only. The slow progress OCD countries have made during the past decade in reforming their subsidy and tax slow progress OCD countries have made during the past decade in reforming their subsidy and tax. OCD COUNTRIES where the past decade in reforming their subsidy and tax of the past decade in reforming their subsidy and tax. OCD COUNTRIES where the past decade in reforming their subsidy and tax of the past decade in reforming their subsidies in the past decade in reforming their subsidies are subsidied to the past decade in reforming their subsidies.

Knowledge and information gaps need to be filled

Not much is known about the sustainability of and linkages between economic, social, and environmental systems. Indicators of performance along the three dimensions of sustainable development are essential for monitoring progress and the success of policies to enhance sustainable development. But existing indicators are often unsatisfactory, or the underlying data is missing or incomplete. Despite ever increasing information and knowledge, science cannot answer many important questions about the type and nature of hazards that we face. Nor can experts accurately predict the economic and social impacts of adopting certain policies. This uncertainty about the future is one reason people resist policy reforms or the introduction of new technologies. For example, uncertainty about the pace and extent of global warming and about the cost and impact of proposed policies to prevent climate change has made forging an international climate change agreement difficult.

While uncertainty can never be eliminated, policy makers in OECD countries are Increasingly relying on tools such as sustainable development impact ansessment, regulatory impact analysis, or integrated appraisal, risk assessment, and risk analysis to help improve the quality of political and administrative decisions. Regulatory impact analysis or integrated appraisal systematically assesses the potential benefits and costs arising from government action. Risk assessment and risk analysis – used as input to regulatory impact analysis – can indicate the benefits (such as reduced adverse health or other effects) expected from the adoption of a new regulatory measure and help identify the most important hzaroth. Decision-makers and the public can use the results of the analyses to compare important hzaroth. Decision-makers and the public can use the results of the analyses to compare in the public of the public of the public can use the results of the analyses to compare these tools also helps make decisions more transparent by making clear the assumptions on which they are based.

Experience in OECD countries shows that tools such as regulatory impact assessment – when properly designed and used – can help improve the efficiency, efficienteness, and transparency of government decisions (DECD, 1997). Their results cannot, however, provide a sufficient basis for decisions on their own. A full analysis of the consequences of available options can inform decision-making but – where this shows competing interests or objectives – it can also provide a basis for re-sessing priorities so as to word or mitigate negative impacts. In addition, not only are experts unable to settle questions of science, but they cannot answer questions about how much risk the public is to settle questions of science, but they cannot answer questions about how much risk the public is for environmental sustainability (DCCD, 2004)). Decisions should be made through a process of open debate during which the public, informed to the greatest extent possible by the available scientific evidence, can express its values and preferences.



STRENGTHENING PARTNERSHIPS FOR SUSTAINABLE DEVELOPMENT IN AN INTERDEPENDENT WORLD

Sustainable development is a shared goal of developing and developed countries

Expanded flows of goods, services, capital, technology, ideas and people around the world — globalisation — offer the prospect of stimulating economic growth and productivity, with resultant improvements in living standards. These processes can also increase global resource efficiencies (including environmental resources), as national economics make the most of their respective comparative advantages, and to exploit available economics of scale. Globalisation involves the potential for costs as well as benefits. The benefits of globalisation are most likely to exceed the costs if market forces are free to generate the economic growth and poverty reduction that underlie sustainable development. The net benefits will also be higher if environmental and social policies are appropriate, implying a need for strong policy co-ordination, within governments and between governments and private actors.

Developed and developing countries have important roles to play in achieving this result, both individually and collectively, For example, OECD and non-OECD countries have long been working together on the sustainable development agenda. Via the many multilateral or regional agreements in which both participate. On the conomic side, the various agreements administered by the World Trade Organisation provide one example; the myriad of bilateral investment treaties that aim to make foreign investment more readily accessible provide another. On the environment side, developing and developed countries both contribute to the implementation of agreements dealing with climate change, cozone depletion, biodiversity loss, describtication, dispension of persistent origantic pollutants over-lishing, and so on. The Clobal Environmental Facility also provides grants and concessional loans to assist developing countries in addressing certain transboundary environmental problems (climate or assist developing countries in addressing certain transboundary environmental problems (climate administered by the International Labour Organisation, Another cerent example is the Clobal Fund to Fight HIV/AIDS. Tuberculosis, and Malaria. created in 2001 by an alliance of private donors, non-governmental organisations, foundations, national governments, and interporemmental organisations.

Considerable attention has been directed in recent years to ways of making implementation of these various agreements more considerant with each other. For example, concerns are sometimes raised about the environmental impacts associated with trade liberalisation agreements, or the trade implications of multilateral environmental account in the control of the con Working together toward poverty reduction objectives is perhaps the most important area in which developed and developing countries need to co-operate towards sustainable developinent. Sustainable developinent cannot be achieved without creating a better future for the world's poor. Despite progress in reducing poverty in some regions, one in five people worldwide still live on less than USD 1 per day (World Bank, 2000). In Africa, this figure is one in two people. Reducing poverty is a complex matter. It requires economic growth, but growth is not enough, Other key contributions come from investments in education, health care, social safety nets, and sound environmental management — all crucial for sustainable development. It is especially viral to create the institutions of governance that foster sustainable development. But only the process of th

Countries agreed to many economic and social goals at various international meetings and summits during the 1990s. A number of key goals for poverty reduction and sustainable development were assembled and updated in the United Nations Millennium Declaration of September 2000, These, and their related targets and indicators, are known as the Millennium Development Goals (see Annex II). These contain ambitious targets and represent a formidable challense. The goals are

- 1) Eradicate extreme poverty and hunger.
- 2) Achieve universal primary education.
- 3) Promote gender equality and empower women.
- 4) Reduce child mortality.
- 5) Improve maternal health.
- 6) Combat HIV/AIDS, tuberculosis, malaria and other diseases
- 7) Ensure environmental sustainability.
- 8) Develop a Global Partnership for Development.

The PARIS21 Consortium — a partnership of policy-makers and statisticians from both OECD and non-OECD countries — works to strengthen the capacity of developing countries (especially the poorest) and to monitor achievement of the Millennium Development Goals through the use of poverty reduction and development indicators. This consortium is supported by the OECD, the World Bank, the International Monetary Fund, the United Nations, and bilateral donors.

Citical to the achievement of the Millennium Development Coals will be the ability of countries to adapt principles and policies agreed at the regional or global level to national or sectoral circumstances. For developing countries, this implies a strong focus on approaches that contribute to several objectives at the same time. An example is efforts to clarify (and give legal recognition to) traditional communal rights to forest and land resources, as a way of encouraging sustainable use of these resources, while protecting the rights of the poorest citizens who often depend on these resources for their livelihood. Efforts to reduce poverty and to achieve other local environmental goals that would also contribute to the adaptation to global climate change provide another example [80 st. 41].

Market access is improving, but major barriers remain

World trade and investment flows involving developing countries have significantly increased in recent years (see Chapter 2). During the 1998, private long-term capital flows from Development Assistance Committee (DAC) countries to developing countries also increased substantially, relative to official development assistance (DOA).

International trade and investment promote economic growth, employment, and development —critical for reducing poverty and generating the wherewithal to invest in social development and environmental protection. Developing countries that have succeeded in participating fully in the world trading system have generally grown faster and reduced poverty more successfully than those that have remained more isolated (DECD, 2011). During the 1990s, developing countries that were more open to

Box 4.1. Climate change and development policies: exploring the synergies

Although climate change does not yet feature prominently on the policy agendas of many developing countries, several factors are starting to change this situation. Developing countries are likely to be the most vulnerable to the long interm impacts of climate change (r.g. infections diseases, see level nec. or change will increasingly affect the very resources on which conomic development in many developing countries depend in Africa, Latin America, and Asia, for example, some analysts suggest significant decreases in agricultural productivity related to climate change for the next century, and a corresponding decreases in agricultural productivity related to climate change for the next century, and some specifications.

Climate change considerations therefore provide both developing and developed counties with an opportunity to look at their respective development strategies from a new perspective. Fulfilling appropriate control of the propriate control of the p

The OECD believes that exploring these "vin-wir" opportunities could prove beneficial for both oeceoping and developed countries over the longetern it, is working to dentity the principal linkages developed the control of the countries to combine poverty reduction strategies with cost-effective climate change adaptation and mitigation policies at the local, national and international levels. One of the objectives is more considerable of the countries of the cou

trade and FDI achieved per capita economic growth rates of 5% a year (World Bank, 2002). In contrast, over the same period, per capita incomes in other developing countries fell by 1% per year.

Although many of the poorest developing countries have benefited little from this globalisation, as FDI flows have targeted only a limited number of recipient countries (see pages 19-20), those which benefited most tended to have stronger governance institutions, more open economic policies, as well as better access to OECD markets. OECD countries recognise the need to work closely with developing countries to immove conditions in each of these area.

Important steps in this direction were the agreements that emerged from the Uruguay Round multilateral trade negotations. The most important aspects of these agreements for developing countries were the binding commitments contained in the "Single Undertaking", whereby virtually every item of the negotation is considered as part of a whole and indivisible package and cannot be agreed upon separately. The Uruguay Round Agreements also brought under the rules of the WTO a number of products in which developing countries have a comparative advantage.

For example, the Uruguay Round brought textiles and clothing products under multilateral rules by aboilshing the Multi Fiber Agreement — a system of import quotast that had previously been negotiated bilaterally between some OECD and supplier countries. However, the new arrangement has a relatively long phase-in-product and some developed countries have exercised their rights to postone liberalisation of the most sensitive items (*back-loading*) until the end of the implementation period in 2005. As a result, many of the benefits from freer trade in his sector for the developing countries have vet to materialise fully.

Another area of particular interest for developing countries is agriculture, where all but the least developed member countries of the WTO bound their tariffs on most products. The Agreement on Agriculture also established commitments to reduce export subsidies, improve market access, and

reduce trade-distorting domestic support. While these commitments represented important steps towards reforming agricultural trade and opening markets, levels of support and protection remain particularly high in this sector. Deeper cuts in tariffs for increases in the volumes admitted at lower tariffs) and eiforts to address non-tariff barriers will be needed to significantly improve the market access of developing countries.

The Doha Development Agenda calls for additional reductions in trade barriers, in the use of export subsidies, and in trade-distorting domestic support to agriculture. The long-term objective is for substantial reductions in market barriers and domestic support and the elimination of export subsidies. Such cuts would benefit those countries that can compete on quality and price, rather than on the size of their subsidies. Many of these countries will be the developing countries, which often have a comparative advantage in producing the goods developed countries protect the most. Indeed, the World Bank estimates, that if developed countries proted unrestricted access to their markets and abolished their export subsidies, developing countries could boost their income by USO 43 billion a year (World Bank, 2002). Clearly, Increased access by developing countries goods to OECD markets would provide significant potential for economic growth and development.

The Doha Development Agenda also affirms that Trade Related Intellectual Property Rights (TRIPS) can and should be used to support countries' public health objectives, especially access to medicines and related research and development. The TRIPS Agreement also requires developed countries to assist developing countries to facilitate implementation of the agreement, and to encourage their firms and institutions to transfer technique to the last-developed countries to

In the Brussels declaration of the Third UN Conference on the Least Developed Countries (May 2001), participating governments made clear their aim to improve preferential market access for last developed countries (LDCs) by working towards the objective of duty-free and quota-free market access for all LDC products in the markets of industrialised countries, individual OECD countries and regions have also taken unlitateral steps to espand duty-free and quota-free access to their markets for goods of the world's poorest countries. For example, in April 2006, Canada, the EU, Japan, and the US announced their intention to provide duty-free market access for nearly all products from LDCs. Other under the contribution of the contribution of the CDC of the CDC other and the CDC of the CD

During the 1990s, more firms than ever before, and in more industries and countries, expanded abroad through direct investment. More than one-half of foreign affiliates are now located in developing countries. The growth in international investment is linked to government action to reduce barriers to investment, to lessen discriminatory subsidies, to reform regulatory systems, and to privates firms in key sectors, such as electricity, gas, water, and telecommunications. Of the almost 1000 changes in FDI regulations used to the control of th

Although there are no comprehensive multilateral rules governing international investment in all sectors, OEDC countries and a number of non-OEDC countries are committed to providing non-discriminatory treatment to inward direct investment and related financial flows, via OECD codes of liberalisation. The 56 countries that adhere to the OECD Declaration on International Investment and Multinational Enterprises have also made a political commitment to provide national treatment to established foreign direct investions to promote voluntary standards of corporate responsibility by multinational enterprises to encourage moderation and restraint in the use of investment incentives and to avoid imposing conflicting regulatory requirements on multinational enterprises. The OECD multiple contributions are considered to the contribution of the properties of the contribution of the contribution of the properties of the contribution of the properties of the contribution of the properties of t

policies need to be accompanied by a range of other policies, for example in areas such as education, macroeconomic stability, good governance, or environmental practice.

The declaration of the UN international Conference on Financing for Development (Monterrey, Mexico, 18-22 March 2002) offers the promise for collaborative efforts among countries to make globalisation work for sustainable development. Among other things, it recognises that each country has primary responsibility for its own economic and social development, but that domestic policies are also tightly interwoven with the global economic system, including opportunities for trade and investment to contribute to novery reduction.

The capacity to benefit from globalisation needs to be strengthened

High barriers to trade and Investment only partly explain why some countries have not benefited as much as expected from economic liberalisation. Another important reason is that governments and private firms in many developing courtries lack the knowledge, technical skills, Infrastructure, and financial resources to deal with the complexity of the multilateral trading system and with the many demands of multilateral, regional, and bilateral agreements. To address this weakness, many DECD countries and intravational organizations have initiated programs to help partner countries build trade capacities, enhance trade performance, and participate effectively in the rule-making and institutional mechanisms that shape the dolobal economy (see Box 4.2).

Similar capacity constraints also exist in the area of investment. Until countries have reached a certain level of development in education and infrastructure, they cannot fully benefit from a foreign presence in their markets. For example, countries cannot benefit from the transfer of technology if they

Box 4.2. Developing capacity for trade

Helping developing country partners create the capacity to meet the requirements of these measures is an area where OECD countries are increasingly focusing their attention. Building this capacity is also high on the Doha Development Agenda.

Trade capacity enhances the ability of partner country policy-makers, enterprises, and civil society actors to

- Collaborate in formulating and implementing a trade development strategy that is embedded in a broader national development strategy.
- Strengthen trade policy and institutions as a basis for reforming import regimes, increasing the
 volume and value-added of exports, diversifying export products and markets, and increasing
 foreign investment.
- Participate in and benefit from the institutions, negotiations and processes that shape national trade policy, and the rules and practices of international commerce.

Although it is not possible to recommend a single policy framework that is ideally suited to promoting trade, recent capacity building efforts point to several features that have been shown to lead to positive results:

- . A coherent trade strategy that is closely integrated with a country's overall development strategy.
- Effective mechanisms for consultation within and among different stakeholders (government, the enterprise sector, and civil society).
- · A strategy for the enhanced collection, dissemination and analysis of trade-related information.
- Trade policy networks, supported by indigenous research institutions, and trade support institutions.
- · Outward-oriented regional strategies.

Source. OECD (2001s),

have no engineers or scientists who can adapt foreign technology to their own needs. Countries with imperfect and underdeveloped financial markets also have difficulty reaping the full benefits of FDI.

Greater openness to international capital markets may also make developing economies more vulnerable to external shocks. The decade of the 1990s witnessed a major increase in the level of international capital flows to developing countries. Factors accounting for this included deregulation, regional integration, and advanced information technology. While these changes provided much-needed capital to some developing countries, they have also contributed to increased volatility of financial flows.

Most of the expected environmental and social effects of trade and investment activity are associated with an expansion of economic output, a reallocation of production and consumption, or effects on technological development and diffusion. Increased openness to trade could generate environmental benefits by raising the value of natural resources, refinedrincing incentives to manage them on a sustainable basis. On the other hand, when property rights to natural resources are not clearly defined, on when regulations governing them are week or poorly enforced, the increased demand for A key concern is therefore that the expanded output associated with trade could exacerbate environmental problems.

In some cases, trade and investment liberalisation may also affect environmental and labour standards, by encouraging existing standards to be reduced or poorly enforced (leading to "pollution havens") or kept low in the first place, in order to keep production prices low (the "regulatory chill" effect). Evidence of such problems has been limited. For example, the evidence suggests that there is a low risk of redeployment of productive resources to countries where environmental standards are low. For most industries, this is because environmental costs are only a very minor component of overall costs. There is also some evidence suggesting that as economic activity expands, both the demand for higher environmental and social quality, and the financial resources to enable investment in these areas increase. Similarly, countries with low core labour standards do not seem to generally enjoy better excore terromance than countries with the standards (OECD, 2000e).

Ensuring the quality of environmental and social policies, and enhancing the effectiveness of public institutions in enforcing regulations are likely to be the most effective ways of ensuring that trade and investment liberalisation on one side, and environmental and social objectives on the other, are mutually supportive. The Orba Development Agend at the WTO is a positive step forward in this respect. Negotiations on the relationship between existing WTO rules and specific trade obligations set out in multilated environmental agreements will be started in this context, as will negotiations on the procedures for regular exchange of information between MEA Secretariats and the relevant WTO committees. Many policies—such as the elimination of subsidies that are both trade-distorting and environmentally-damaging – can lead to "win-win" outcomes when supported by complementary environmental and social policies at the national level.

More systematic assessment of the environmental and social implications of trade and investment liberalisation would allow for more informed decisions by policy-makers, and a better sequencing of the reform process. Several DECD countries are therefore currently undertaking environmental or sustainability reviews of WTO and regional or bilateral trade agreements, in order to identify those trade measures most likely to exacerbate environmental and social pressures, as well as those areas where liberalisation is likely to bring benefits.

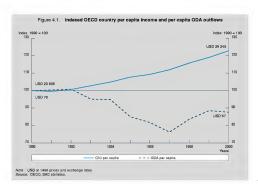
Designing environmental and social policies in non-protectionist ways, and ensuring that estating trade and investment regimes do not prevent the non-discriminatory implementation of national regulations, are also essential elements for progress toward this objective. One issue that has emerged during the 1999 is the effect on developing country exports of OECD countrie environmental regulations and other measures, such measures cover a broad spectrum of instruments and include technical regulations (such as product-content requirements), sanitary and phytosvantism measures and exchanged the content of the product-content requirements, sanitary and phytosvantism measures and often have real difficulty consistently complying with these measures (OECD, 2001). Exporters may lack understanding of what is required; exchanged and the content of the conten

equipment. Governments may not have the monitoring systems, data, or trained agents needed to enforce the measures. Helping developing country partners create the capacity to meet the requirements of these measures is therefore an area where OECD countries could focus their capacity building efforts in the future.

ODA remains very important for global sustainable development

In the fight against poverty, ODA plays a vital role in supplementing and catalysing domestic resources and loreign investment. In recent year, ODA has represented an average of about onethird of total resource flows from industrialised to developing countries. ODA is especially important for the powers countries that have difficulty attracting international investment. In these countries, ODA can account for up to 25% of gross national income (GNI), and for a much higher proportion of public spending.

OECD countries have steadily decreased their spending on DDA as a percentage of total CNI and per capita over the past decade (Figure 4.1). In 2000, ODA represented only 0.2% of national income compared to 0.33% in 1992 and to the 1970 UN target of 0.7%. In some cases this reflected liscal problems. There was also a perception that ald has often not been effective in inducing development, despite recent research and evaluation pointing to increasingly positive returns to aid. However, at the UN Conference on Financing for Development (Montrery, Mexclo, March 2002), most major OECD donors indicated an intention to substantially increase aid. In an environment where ODA flows, while rising, will remain highly constrained, it is impreeditive that available resources be used as efficiently and



effectively as possible to promote growth and reduce poverty. Recent studies show that aid effectiveness depends on various conditions (World Bank, 2002). The most important of these are:

- good governance:
 - policy and institutional frameworks that encourage private investment (macroeconomic and political stability, respect for human rights and the rule of law);
- minimum levels of investment in human capital (education, good health, nutrition, social safety nets); and
- · policies and institutions for sound environmental management.

There have been significant improvements in making aid more effective. Key among these is strengthening partnerships for development. Partnerships are increasingly based on the principle of helping governments and people of developing countries strengthen their capacities to direct their own development initiatives. It often involves working with non-governmental organisations, business groups, academic institutions, and others, in recognition of the important role these groups play in fostering sustainable development. Broadly, the partnership approach recognises the importance of a dynamic private sector, local ownership, and participation by civil society.

One of the Millennium Development Goals is to integrate the principles of sustainable development into country policies and programmes. The development of sustainable development strategies enable countries to tackle challenges in a coherent and dynamic way. But there can be no 'one size fits all' approach. Each country must formulate its own approaches, in line with its social and economic priorities, its cultural values, institutions, political structures and geographical and ecological features. Thus, sustainable development strategies can take a variety of forms. Successful strategies, however, share a number of common principoles.

- · Country-led and nationally owned.
- · Rooted in a vision of long-term development reflecting the country's history and core values.
- Developed transparently with the broad participation of multiple stakeholders (including representatives of government, business, labour, and civil society).
- . Based on realistic and easy to monitor targets linked to budgetary priorities.

Formulating a sustainable development strategy does not necessarily mean establishing new plans or institutions. Established strategic planning processes provide a strong basis for moving towards sustainable development. Poverty reduction strategies (PRS), in particular, provide important opportunities for countries to move towards sustainable development. These strategies are conceived as country-driven instruments, developed transparently with broad participation of elected institutions. stakeholders, key donors and regional development banks, and have a clear link with the agreed international development goals. OECD countries are providing substantial (and increasing) support for the implementation of PRS, through their bilateral assistance as well as through their contributions to multilateral institutions. The success of PRS initiatives will hinge on donors and recipients honouring their respective commitments. For donors, this will imply refraining from excessive steering of the various processes. The DAC Guidance on Sustainable Development Strategies provides advice on actions that development agencies can take to support sustainable development goals in partner countries, and suggests ways of monitoring progress (OECD, 2001x). For developing country partners, the challenge will be to mobilise all actors around long-term development and poverty reduction goals, taking into account social and environmental sustainability dimensions. This implies, for example, ensuring that action plans formulated in response to the desertification, climate change, and biodiversity conventions are fully integrated into national poverty reduction efforts. The OECD Development Assistance Committee (DAC) is working to formulate guidance for donors to mainstream these issues in their development co-operation, taking maximum advantage of available "win-win" opportunities (OECD, 2002a).

Another way OECD countries are working to increase the value of ODA is by "untying" it. Tied aid raises the cost of many goods and services. It also increases the administrative burden on both

recipients and donors, and tends to favour projects that require capital intensive imports or donorbased technical expertise, rather than smaller and more poverty-focused programmes.

OECD countries took an important step in untying aid by adopting a Recommendation on Unitying Official Development Assistance to the Least Developed Countries in Appil 2001. Under this agreement, donors will untite their aid to the least developed countries provided for a range of purposes (for balance of payments and structural adjustment support, debt forgiveness, sector and multi-sector programme assistance, investment project aid, import and commodity support, commercial services contracts, and ODA to non-governmental organisations for procurement-related activities). Some OECD countries have Indicated their Intention to extend the coverage of this agreement to Include other categories of aid, as well as aid to higher-income developing countries.

Since 1992, the tied aid disciplines of the Export Credit Arrangement operated under the auspices of the OECD have been successful in allevating trade distortions, as well as in redirecting aid towards sectors that can particularly support sustainable development (e.g. health, education, and social sectors) and poorer developing countries, thus providing more effective aid to those countries most in eneed (i.g. with a GNI per capita currently below USD 2 995). Twenty-six countries have agreed to implement a common approach on environment and officially supported export credit.

Harmonising donor practices can also increase the effectiveness of ODA, by reducing duplication of cliots and lessening the administrative burden on donor and recipient governments. For example, the OECD DAC have, together with the participation of recipient countries, established a Task Force on Donor Practices, which is now developing as et of "good practice" reference papers which will highlight practices such as upstream analysis and dialogue, financial management, monitoring and reporting, and sectoral approaches with a view to strengthening recipient countries' ownership.

A major effort is also under way to reduce the repayment burden of Heavily Indebted Poor Countries (HIPCs), most of which are the least developed countries of sub-Saharan Africa. A substantial part of this debt is owed to international financial institutions, but ODA loans, bank loans, and export credits from DECD countries are also involved. The HIPC process is explicitly designed to reduce debt to manaezable levels and to eventually enable recipient countries to gain wider access to international to manaezable levels and to eventually enable recipient countries to gain wider access to international to manaezable levels and to eventually enable recipient countries to eain wider access to international to the countries of the countries o

Box 4.3. Supporting technology diffusion: lessons from experience

- Technology diffusion requires building capacity, not just providing hardware. The main constraint to the diffusion of existing technology is a lack of the institutional, technical, and managerial capacities needed to manage change.
- Financial institutions play a key role. In many countries, weak financial institutions, as well as limited access
 to credit constrain the development of business: in addition, financial institutions often have limited
 capacity to assess the financial benefits of cleaner techniques and technologies.
- Demestic policies and regulations are important. Subsidies for key inputs such as energy and water, or weak
 enforcement of environmental regulations, reduce incentives for industry to develop and apply new
 technologies.
- Public pressure is essential. Improving public knowledge of the health and other impacts of environmental
 degradation can assist in mobilising collective efforts towards environmental protection and create
 demand for the improved environmental performance of public and private actors.
- Supporting Intelligence for long-term effort. Capacity development is a long-term process, and its
 results will have to be absorbed and accepted into the general societal fabric of a country. This often
 requires a continuous effort over a long period of time. Effective technology co-operation may require
 commitments for support that go beyond the normal planning horizon of 3-5 years, often extending to
 10-20 years.

finance on a sustainable basis. The HPC initiative is designed to 'front-load' relief, enabling it to take effect more quickly. OECD countries have also agreed to a Statement of Prindiples aiming to discourage the provision of officially supported export credits to the HIPCs for unproductive expenditure. This measure seeks to ensure that non-essential capital goods and projects that do not contribute to the social and economic development of the powers nations, but have the effect of increasing their debt burdens, do not benefit from the official export credit support of OECD governments. HIPC debt relief is intended to supolement annual net ODA flows, not to replace them.

ODA is only one of the ways in which OECD countries can contribute to poverty reduction and other development objectives. Development co-operation does have a crucial role to play, but It cannot realise its full potential if to operate in a vacuum. The issue of coherence among policies, both in developing and developed countries is therefore critical. For example, as discussed earlier, trade and investment policy can be much more important for many countries. Donors are increasing their assistance to strengthen trade capacities in developing countries, while at the same time they continue to restrict the access of developing countries to their markets. Such examples of "policy incoherence" are often long-standing, and politically difficult to resolve in ways that are mutually satisfactory, 4t a minimum, policy priorities should be set with full knowledge of their implications for other actors and goals, both domestically and above.

One area in which policy coherence is especially important is that of technology development and co-operation. The dissemination of cleaner techniques and technologies to a wider range of users is likely to yield additional economic, environmental, and social benefits at the same time – thereby contributing directly to sustainable development. Access to environmentally friendity technology, including in the area of energy production and consumption, is generally considered to be an important precondition for sustainable development. Tariffs and other trade barriers often stand in the way of trade in environmental goods and services. The Poba Development Agenda calls for the reduction or, as appropriate, culimation of califf and non-tariff barriers to environmental goods and services. The key is to make sure that policies that affect technology development and diffusion all work in the same direction (see Box 43).

NOTES

- The specific role of the OECD as one of a number of major international institutions working towards sustainable development is described in Annex I. This Annex discusses the policy and analytical work of the organisation that supports countries in working co-operatively towards sustainable development.
- While it is clear that accumulation of capital is important for growth, the impact of investment in the different forms of capital is less obvious. Some empirical analysis has been undertaken to illuminate the impact of specific policies and institutions on output srowth in DECD countries (DECD. 2000).
- 3. A key choice in defining poverty is specifying the income threshold below which people are classified as being poor, in this report, a relative poverty threshold is used for DECD countries individuals are considered poor if their available income from all sources is substantially lower than that of a typical person in their country of absolute standard of living this is the measure used in this report to discuss provyth in developing countries.
- 4. These figures account for only those emissions generated within OECD countries, not including those generated through the production of goods outside both and then imported for consumption in OECD countries with an them imported for consumption in OECD countries. Combining estimates of both carbon embodied in a domestic production liese exports and those embodied in imported goods would provide a clearer picture of the level of carbon dioxide emissions result associated with consumption activities in a specific country. The OECD is starting a project that would attempt to generate such estimates for a subset of OECD countries.
- 5. Recent studies indicate that global fish catches may have been over-reported (Watson and Pauly, 2001).
- 6. Environmentally related taxes are usrequited levies on emissions or discharges of pollutants, disposal and treatment of waste, and use of environmentally harmful products, such as petroleum products, electricity, certain chemicals and the like. In co-operation with the European Commission and the International Energy Agency, the OECD has developed an online database of environmentally related taxes in OECD countries (see www.ced.org/niturd.sdubszyr).
- 7. Calculated using producer subsidy equivalents.
- See, for example, the OECD Recommendation of the Council on Improving the Environmental Performance of Public Procurement (C(2002)3) (www.ecd.org).

ARREX I OECD SUPPORT FOR SUSTAINABLE DEVELOPMENT

The DECD brings together 30 Member countries sharing a commitment to democratic government and the market economy, Many of Its activities have a global reach, maintaining active relationships with some 70 other countries, non-governmental organisations and evil society. The Organisation provides member governments with a tocommon problems and voxel to exceeding a continuous contributions. The organisation is interdisciplinary in nature. Its expertise covers the economic, social, and environmental fields, as well as development co-poration, trade, fixed, public management, scientific, and other sectoral policies. The OECD's multidisciplinary capacity for analysis and policy dialogue, its hollistic approach to issues, and its unique process for building spacely by dating less persistices and maintaining country performance through per pressum, makes if

The OECD plays a prominent role in fostering economic growth, social development, environment management and good governance monopsite its Member countries, as well as through a programme of co-operation management and good governance monopsite its Member countries. The office of the countries of the countries

Analytical work and policy recommendations

The OECD provides a setting for reflection and discussion about public policies amongs countries, based on crearch and analysis. While this role is only occasionally high-profile, its crucial it is a process that begins with data collection and analysis and moves on to collective discussion of policy. The OECD facilitates the sharing of country research, it also provides the opportunity for the identification and examination of emerging issues. For example, the OECD has been at the forefront of discussion on the opportunities and challenges of modern bioscripticage – hosting as a reise of multi-state-holder international conferences in 200 and 2001 on the environmental and health effects of

In addition to the work undertaken within the Committees and subsidiary hodies of the Organisation which contribute to analysis of issues under the separate pillage of sistantiande development, the OSED has undertaken contribute to analysis of issues under the separate pillage of sustainable development. The Comprehensive since 1998 specific co-ordinated analysis across the organisation on sustainable development. The comprehensive analysis and the policy recommendations resulting from this three-year horizontal project on sustainable development, summarised in the OECD report Pédics to Edwards stainable Development, were presented to OECD development, summarised in the OECD report Pédics to Edwards stainable Development, were presented to OECD and development, and the OECD report Pédics to Edwards stainable Development, were presented to OECD and addition to welcoming these results, Ministers of Financia and of Environment when they met after OECD in May 2001 (DECD, 2001s) in the oECD to continue its analytical work to support their policy decisions, in particular in terms of the oECD to continue its analytical work to support their policy decisions, in particular in terms of the oECD to continue its analytical work to support their policy decisions, in particular in terms of the oECD to continue its analytical work to support their policy decisions, in particular in terms of the oECD to continue its analytical work to support their policy decisions, the particular in terms of the oECD to continue its analytical work to support their policy decisions in particular in terms of the oECD to continue its analytical work to support their policy decisions in the oECD to continue its analytical work to support their policy decisions in the oECD to continue its analytical work to support their policy decisions in the oECD to continue its analytical work to support their policy decisions in the oECD to continue its analytical work to support their policy decisions in the oECD to continue its analytical work to support

- developing agreed indicators that measure progress across all three dimensions of sustainable development, including decoupling of economic growth from environmental degradation, with a view to incorporating these into OECD's economic, social and environment peer review processes, and filling gaps in the statistical and
- identifying how obstacles to policy reforms in particular to the better use of market-based instruments, and to the reduction of environmentally harmful subsidies – can be overcome; and deepening its analytical work on these instruments;
- analysing further the social aspects of sustainable development, including work on human and social capital, as well as their interaction with their economic and environmental dimensions, and
- providing guidance for achieving improved economic, environmental and social policy coherence and integration.
- Work has been launched in the OECD on these areas, and will continue over the next three years. Key results will be presented to Ministers in 2004.

The OECD also promotes good governance through analysis of the effects of existing and proposed policies, and by developing policy recommendations and legal instruments (see pages 77-76), it is also working on improving information, consultation and participation in policy-making, and has recently published a report and a handbook too strengthening operation and participation in policy-making, and has recently published a report and a handbook for strengthening operation and the properties of the properties of the properties of the too strengthening the properties of the properties of the properties of the properties of the coherence and integration for stratariable development to provide guidance to policy makers (DCCD, 2023).

To foster coherence and co-ordination in its own work on sustainable development, the OECD set up, in 2001, a high-level alf kix Group on Sustainable Development to oversee the work of the Organisation on this issue. The Bureau members of the Group include the Chairs of the OECD Economic. Social and Environmental Policy Committees

Data and indicators

Exhanges among OECD governments flow from the information and analysis provided by the Scretariat. The Scretariat collects data, monitors trends, analyses and forecasts economic developments, and researches social changes or evolving patterns in trade, environment, agriculture, technology, taxation and more. A wide range of statistics are generated to help Member countries monitor developments in their own countries, compare progress across countries, and to provide a basis for the harmonisation of policies and regulations. The OECD also promotes and develops international statistical standards and co-ordinates statistical activities with other international agencies.

The OECD works on the development and collection of indicators to measure progress towards sustainable development, clouding indicators covering all three dimensions of sustainable development economy, conviconment, and society. To underpin its economic analysis, the OECD maintains databases containing a wide range excitor in the development of particular particular containing and expension of the containing and expension of the containing and expension of the containing and of techniques for measuring productivity, capital stock, research and development and prices. The OECD has been involved in the development of the provision over the past ten years, including constructing a core set of environmental indicators over the past ten years, including constructing a core set of environmental indicators over the past ten years, including constructing a core set of environmental indicators over the past ten years, including constructing a core set of environmental indicators over the past ten years, including constructing a core set of environmental indicators over the past ten years and prices. The OECD has been involved in the exception of the past of the

Recent initiatives focus on using sustainable development indicators more systematically in OECD peer review processes [see Box A1] and on further developing indicators that measure de-coupling of environmental pressure from economic growth.

Box A1. Sustainable development indicators and their use in the OECD peer review processes

As part of a new mandate on sustainable development requested by Ministers at the May 2001 DCSC Ministerial Council Meeting, the Organisation has started a process for agreeing on indication sustainable development that can be used in its regular peer reviews of government policies and performance. As a first step, a menu of important policy issues has been drawn by From this menu, a few areas will be selected for each country peer review based on their relevance to that country. A special was seen to be a second process of the process of the process of the country and period proofs will be desired from the control of the process of the process of the processor for country and process of the processor of

The second step of the process will consist of using these indicators for the actual peer reviews. About two years will be required to ensure full coverage of OECD countries in the regular economic surveys. A synthesis of the main lessons learned will be prepared for the OECD annual ministerial meeting in 2004.

Peer review processes

The polities of OECD countries that most directly affect austainable development are assessed regularly in the OECD Economic Surveys, Environmental Performance Reviews the peer reviews of the Development Assistance Committee (DAC) Members' Development co-operation programmes, IEA Energy Policy Reviews, and regular reviews of country science and technology policy developments. The review of frends, policies and country performances, as well as the use of peer assistance of the peer of the p

The Economic Surveys focus on the macroeconomic and structural policies that could boost economic performance on a sustainable basis. In-depth chapters on specific issues are also included in each survey. Since 1998, reviews for 13 countries have focussed specifically on "encouraging environmentally sustainable growth" as part of the OECD horizontal project on sustainable development.

The OECD Environmental Performance Reviews assess progress towards national objectives of environmental policy and sustainable development, as well as compliance with ealter direct mentational commitments. After reviewing all member Countries, a second review cycle was launched in 2000, with a special focus on sustainable development issues and on the integration of conomic, social, and environmental dimensions of decision-making. The OECD also reviewed a few non-member countries (r.g. Russia) and has supported UN-ECE in launching a similar programme of environmental performance reviewes for countries in central and eastern European.

Examinations of the Development Assistance Committee Members aid policies are unique to the OECD. The DAC peer review is prepared by the Secretariat after visiting development authorities and officials both in country capitals and in the field Recent work focuses on assessing agencies' efforts towards internationally agreed objectives, and compliance with selected DAC Guidelines in key development areas (including environment and sustainable development). DAC members have agreed on the need to develop more systematic approaches to internate sustainable development into DAC peer reviews, and have started working towards that

OECD Decisions, Recommendations and other legal instruments

Sometimes, the analytical work of the Organisation and its policy recommendations lead to international agreement to move forward on an issue for which multi-lateral co-operation can henefit all participants in such cases, the Organisation can facilitate the development of legal instruments to support such co-operation, either for adoption by the OECD Council or for reacedation within the framework of the Organisation.

OECD Council Decisions are legally binding on all those Member countries that do not abstain at the time they are adopted. While they are not formally international tractises, they do notful the same kind of legal obligations. Currently, there are over 30 OECD Decisions in place OECD Council Recommendations, of which there are over 12 oeconocides they are almost force as representing the political consensus of Member countries when the countries are expected to do their utmost to fully implement as Recommendation. Other themselves the object of the countries are expected to do their utmost to fully implement as Recommendation. Other countries when the countries are expected to do their utmost to fully implement and remove the countries are expected to do their utmost to fully implement and remove the countries are expected to do their utmost to fully implement as decemberable.

A number of the existing OECD instruments have played a prominent role in favouring greater integration of the three pillian of sustainable development in policy making over the last five decided spee also floor, 37; For example, the three pillians of sustainable development in policy making over the last five decided spee also floor, 37; For example, provided a foundation for many OECD country pollution prevention and control policies. It specifies that the polluter should bear the expenses of carrying out environmental protection measures decided by public authorities to ensure that the environmental is in an acceptable state similarly, the 1990 DECD Receive mendation on Environmental constructions of the province of

Other examples of OECD instruments that are helping to contribute to sustainable development include the DECD Convention on Combating Bribery, the Export Credit Arrangement, and the OECD Guidelines for Multinational Enterprises, the OECD Declaration on International Investment, and the Principles for Corporate Governance.

The OECD Convention on Combating Bibbery of Foreign Public Officials in International Business Transactions, which entered into fore on 15 Perbary 1999, makes it a critice to offer promise or give a bribe to a foreign public official in order to obtain or retain international business deals The Convention is open to adherence by non-OECD countries, are committed to adopting common rules to punish companies and Individuals who engage in bribery transactions. They are subjected to close monitoring, and are evaluation of each country reviewed is published on the OECD internative.

The OECD's work on export credits involves the maintenance and development of disciplines – the Export Credits Arrangement – that stipulate the most generous financial terms and conditions for officially supported export credits provided by governments. These disciplines, which are subject to ongoing negotiation, aim to eliminate trade distortions and subsidies in the provision of officially supported export credits. The OECD also provides a found for

Box A2. DAC guidelines on sustainable development strategies

The OECD Development Assistance Committee is one of the key forums in which major OECD donors work together to formulate policies and approaches to guide their efforts to support developing country partners towards sustainable development. Amongst other activities, they have produced a number of Guidelines for countries, including on the development of national Strategies for Sustainable Development, and on Powerty Reduction.

The DAC Guidelines on Sustainable Development Strategies, for example, provide policy guidance on good practice and key principles for the development of national strategies, based on extensive country experience and analysis. They are being used by countries worldwide in the development of their National Strategies in the run-up to the 2002 World Summit on Sustainable Development.

Source OECD (2001w)

discussion and co-ordination of national export credit policies and practices in the context of broader policy concerns This forum has been actively working on issues relating to export credits and the environment and on export credits and bribery. During 2001, the OECD Export Credit Group agreed on an Action Statement on Bribery and Officially Supported Export Credits: tempty site of the twenty-eight Group members agreed to implement a set of Common Approaches on the officially Supported Export Credits and the Environment which they will rever in 2003 in light that the Credit is the Credit is the Credits and the Environment which they will rever in 2003 in light (International Credits). The Credits are considered to the Credits and the Environment which they will rever in 2003 in light (International Credits).

Increasingly, business and industry are seen as having a special responsibility in contributing to the achievement of sestimatible development. The OECD is supporting the development of government policies and voluntary approaches that encourage good corporate conduct. The OECD Guidelines in Multinational Enterprises are recommendations to the contribution of the

Dialogues with non-member countries

The OECD maintains dialogues with all regions of the world though the Centre for Co-operation with Non-Members. The Centre promotes and co-ordinates the OECDs policy dialogue and co-operation with a range of transition, emerging, and developing countries. Its activities aim to share institutional and policy options and to promote non-member country participation in OECD Committees and adherence to DeCD norms. and instruments.

The Centre has recently set up eight single-issue Global Forums, as specialised initiatives and networks, to address issues of mutual oconcer between OECD and non-OECD countries. One of these is a Global Forum on Sustainable Development, the first event of which was a Conference on Financing the Environmental Dimension of Sustainable Development held in April 2002 it built on the lessons learned from the UN Financing for Development Conference in March 2002, and contributed to the ongoing discussion and analysis of effective financing for sustainable development. The other Global Forums will folk out the issues of Agriculture, Competition, Covernance, sustainable development. The other Global Forums will folk out the issues of Agriculture, Competition, Covernance, and Trade the Countries of the

Dialogues with stakeholders

The OECD recognises the valuable contribution of vil society can make to the public policy-making process, particularly in the near of sustainable development, and attaches great importance to the Organisations own consultations with stakeholder partners. DECD Committees and the Secretariat meet regularly with representatives of business Introduct the Business and Industry Advisory, Committee to the DECD, or BIAL; tack unions (Hrough the Trade Union Advisory Committee to the OECD, or TUACs, and environmental and development non-government containability of the Sixon Secretary (Indiana send direction of DECD wides no sustainable development.)

A special OECD Forum, held annually since 2000, allows ministers and leaders from business, labour, and NCOs of discuss key issues of the 21st entirely Held in conjunction with the OECD sannual Ministerial Council Meeting, the Forum is a multi-stakeholder dailaque providing a direct input into, and helping to shape the outcome of the OECD between the Council Meeting and the Council Meeting of the Council Meeti

Annex II

MILLENNIUM DEVELOPMENT GOALS

Goal 1: Eradicate extreme poverty and hunger

1 Proportion of population below \$1 per day

Poverty gap ratio [incidence x depth of poverty].

17 Proportion of births attended by skilled health personnel

HIV prevalence among 15-24 year old pregnant women

Proportion of population in malaria risk areas using effective malaria prevention and treatment measures Prevalence and death rates associated with tuberculosis 24 Proportion of tuberculosis cases detected and cured under DOTS (Directly Observed Treatment Short Course)

21 Prevalence and death rates associated with malaria.

and the accumulation of global warming gases).

Contraceptive prevalence rate 20 Number of children orphaned by HIV/AIDS-

Goals and targets

Target 1: Halve, between 1990 and 2015, the proportion

of people whose income is less than one dollar a day.

2015, the maternal mortality ratio

the spread of HIV/AIDS

Target 7: Have halted by 2015, and begun to reverse.

Target 8: Have halted by 2015, and begun to reverse,

the incidence of malaria and other major diseases.

Target 2: Halve, between 1990 and 2015, the proportion of people who suffer from hunger.	4 5	Share of poorest quintile in national consumption Prevalence of underweight children (under-five years of age) Proportion of population below minimum level of dietary energy consumption.
Goal 2: Achieve	e uni	iversal primary education
Target 3: Ensure that, by 2015, children everywhere,	6	Net enrolment ratio in primary education.
boys and girls alike, will be able to complete a full course of primary schooling	8	Proportion of pupils starting grade 1 who reach grade 5. Literacy rate of 15-24 year olds.
Goal 3: Promote gen	der	equality and empower women
Target 4: Eliminate gender disparity in primary and	9	Ratio of girls to boys in primary, secondary and tertiary education
secondary education preferably by 2005 and to all levels of education no later than 2015		Ratio of literate females to males of 15-24 year olds. Share of women in wage employment in the non-agricultural sector.
of education no later than 2015	11	Proportion of seats held by women in national parliament.
Goal 4:	Red	uce child mortality
Target 5: Reduce by two-thirds, between 1990 and 2015,	13	Und er-five mortality rate
the under-five mortality rate	14	Infant mortality rate
	15	Proportion of I year old children immunised against measles
Goal 5: Is	mpro	ove maternal health
Target 6: Reduce by three-quarters, between 1990 and	16	Maternal mortality ratio.

Goal 7: Ensure environmental sustainability

Goal 6: Combat HIV/AIDS, malaria and other diseases

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Target 9: Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources.	27	Proportion of land area covered by forest: Land area protected to maintain biological diversity GDP per unit of energy use (as proxy for energy efficiency). Carbon dioxide emissions (per capital).
	40	Carbon diocide emissions (per capita)

Goals and targets

Indicators

Target 10: Halve, by 2015, the proportion of people

without sustainable access to safe drinking water

Target 11: By 2020, to have achieved a significant improvement in the lives of at least 100 million slum dwellers.

29 Proportion of population with sustainable access to an improved

Proportion of people with access to improved sanitation 31 Proportion of people with access to secure tenure

[Urban/rural disaggregation of several of the above indicators may be relevant for monitoring improvement in the lives of slum dwellers

Goal 8: Develop a Global Partnership for Development

Target 12: Develop further an open, rule-based. predictable, non-discriminatory trading and financial

includes a commitment to good governance, development, and poverty reduction - both nationally

and internationally Target 13: Address the Special Needs of the Least Developed Countries

Includes tariff and quota free access for LDC exports; enhanced programme of debt relief for HIPC and cancellation of official bilateral debt, and more generous

ODA for countries committed to poverty reduction Target 14: Address the Special Needs of landlocked countries and small island developing states.

(Through Barbados Programme and 22nd General Assembly provisions i

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term

Target 16: In co-operation with developing countries. develop and implement strategies for decent and productive work for youth.

Target 17: In co-operation with pharmaceutical companies, provide access to affordable, essential drugs in developing countries

Target 18: In co-operation with the private sector, make available the benefits of new technologies, especially information and communications

Countries (LDCs). Africa. landlocked countries and small island developing states. Official Development Assistance

Net ODA as percentage of DAC donors' GNI Itargets of 0.7% in

total and 0.15% for LDCs1. Proportion of ODA to basic social services (basic education, primary health care, nutrition, safe water and sanitation) Proportion of ODA that is untied.

Some of the indicators listed below will be monitored separately for the Least Developed

Proportion of ODA for environment in small Island developing states

Proportion of ODA for transport sector in land-locked countries

Market access

37 Proportion of exports (by value and excluding arms) admitted free of duties and quotas Average tariffs and quotas on agricultural products and textiles

and clothing Domestic and export agricultural subsidies in OECD countries

Proportion of ODA provided to help build trade capacity Drfd sustainafdita

41 Proportion of official bilateral HIPC debt cancelled. 42 Debt service as a percentage of exports of goods and services Proportion of ODA provided as debt relief

44 Number of countries reaching HIPC decision and completion points Unemployment rate of 15-24 year olds

Proportion of population with access to affordable essential drugs on a sustainable basis.

Telephone lines per I 000 people

48 Personal computers per 1 000 people

Other Indicators to be determined

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ACRONYMS AND ABBREVIATIONS

DAC	Development Assistance Committee
DOTS	Directly Observed Treatment Short Course
FDI	Foreign direct investment
GDP	Gross domestic product
GNI	Gross national income
GSP	Generalised System of Preferences
HIPCs	Heavily Indebted Poor Countries
IEA	International Energy Agency
ISCED	International Standard Classification of Education
ITC	International Trade Centre
IUCN	International Union for the Conservation of Nature
LDCs	Least developed countries
LMOs	Living modified organisms
NOx	Nitrogen oxides
ODA	Official development assistance
OECD	Organisation for Economic Co-operation and Development
PPP	Purchasing power parity
PRS	Poverty reduction strategies
R&D	Research and development
SOx	Sulphur oxides
TRIPS	Trade Related Intellectual Property Rights
UN	United Nations
UNCTAD	United Nations Conference on Trade and Development
UN-ECE	United Nations Economic Commission for Europe
VOCs	Volatile organic compounds
WTO	World Trade Organization
	nona made organisation

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